

[illegible]

UA-blw	Pride of the West	A50	207.5	0.5	0.3%	138.8	94.8%	\$60
CC	Grand Mogul	CC01C	199.4	0.4	0.3%	139.2	95.1%	\$120
UA abv	Vermillion Mine	DM17	187.8	0.4	0.3%	139.6	95.4%	\$420
MC	Anvil Mtn.adit?	M33B	186.0	0.4	0.3%	140.0	95.6%	
CC	Queen Ann	CC01A	177.4	0.4	0.3%	140.4	95.9%	\$10
UA-blw	Auburn	DM36	162.8	0.4	0.2%	140.8	96.1%	\$70
MC	Lower Bonner gathere	M21	155.5	0.3	0.2%	141.1	96.4%	\$70
UA-blw	Oyama tunnel	DM49	153.2	0.3	0.2%	141.4	96.6%	
UA abv	Golden Fleece	DM27	136.0	0.3	0.2%	141.7	96.8%	
UA-blw	Unknown Draining Mir	DM37	133.8	0.3	0.2%	142.0	97.0%	
UA abv	Silver Queen	DM25	122.6	0.3	0.2%	142.3	97.2%	
CC	Big Colorado	CC16C	120.4	0.3	0.2%	142.6	97.4%	
MC	INDEPENDENCE MINE	M21H	116.2	0.3	0.2%	142.8	97.6%	
UA-blw	Mighty Monarch	A69	111.8	0.2	0.2%	143.1	97.7%	
UA-blw	Royal Tiger	DM63	110.6	0.2	0.2%	143.3	97.9%	\$300
MC	COLLAPSED MINE, NC	M22B	110.0	0.2	0.2%	143.6	98.1%	
UA abv	Columbus	DM20	99.8	0.2	0.2%	143.8	98.2%	\$300
UA abv	Little Chief	DM3	91.4	0.2	0.1%	144.0	98.3%	
CC	Evelyn Mine	CC21C	84.5	0.2	0.1%	144.2	98.5%	\$1,000
UA abv	Tom Moore	DM22	78.7	0.2	0.1%	144.3	98.6%	\$1,000
CC	Monarch Mine	CC38C	72.4	0.2	0.1%	144.5	98.7%	\$1,010
UA-blw	Moonbean	DM35	66.0	0.1	0.1%	144.7	98.8%	
CC	Unnamed adit between Mogul Mine and	CC5	65.3	0.1	0.1%	144.8	98.9%	\$60
CC	Mine 1/2 mile E. Gold	CC10B	63.1	0.1	0.1%	144.9	99.0%	
CC	Occidental	CC13D	59.9	0.1	0.1%	145.1	99.1%	
MC	U.S.Basin #2	M07C	55.9	0.1	0.1%	145.2	99.2%	
UA-blw	Blair Mtn. Tunnel	DM65	53.1	0.1	0.1%	145.3	99.2%	
UA abv	Mountain Queen	A19a	50.0	0.1	0.1%	145.4	99.3%	\$300
MC	Boston	M36	39.6	0.1	0.1%	145.5	99.4%	
MC	Junction Mine	M02B	36.7	0.1	0.1%	145.6	99.4%	\$300
UA-blw	Smuggler	DM46	35.4	0.1	0.1%	145.7	99.5%	
MC	Upper Browns Mine	M12F	33.0	0.1	0.0%	145.7	99.5%	
CC	Adit below and S. of A	CC30J	30.8	0.1	0.0%	145.8	99.6%	
UA abv	Lucky Jack	A02B	30.1	0.1	0.0%	145.9	99.6%	\$60
UA-blw	Hidden Treasure	DM44	28.3	0.1	0.0%	145.9	99.7%	
UA-blw	Old Hundred	A49	26.5	0.1	0.0%	146.0	99.7%	\$0
CC	River right above KC #?		25.0	0.1	0.0%	146.0	99.8%	
UA abv	London Mine	A07LM	24.8	0.1	0.0%	146.1	99.8%	\$0
MC	Silver Crown	M09	22.9	0.1	0.0%	146.2	99.8%	
UA-blw	Unknown Draining Mir	DM38	20.6	0.0	0.0%	146.2	99.9%	
UA-blw	Bradley tunnel	DM54	15.6	0.0	0.0%	146.2	99.9%	
UA-blw	Joseph Neff	DM75	12.9	0.0	0.0%	146.3	99.9%	
UA-blw	Bavarian	DM33	9.9	0.0	0.0%	146.3	99.9%	
UA-blw	Silver Star	DM43	6.8	0.0	0.0%	146.3	99.9%	
UA abv	Indian Chief	DM28	5.9	0.0	0.0%	146.3	99.9%	
UA abv	Early Bird	DM4	4.9	0.0	0.0%	146.3	99.9%	
UA-blw	Ben Franklin	DM32	4.7	0.0	0.0%	146.3	99.9%	
UA abv	Burrows Mine Drainag	A17a	4.2	0.0	0.0%	146.3	100.0%	
UA-blw	Unknown Draining mir	DM72	3.0	0.0	0.0%	146.3	100.0%	

UA-blw	Jess Mine	DM77	2.9	0.0	0.0%	146.4	100.0%	
UA abv	Burrows Mine Drainage	A17b	2.6	0.0	0.0%	146.4	100.0%	
CC	Lewis property: drainage	CC01P	2.5	0.0	0.0%	146.4	100.0%	\$60
CC	Joe & Johns	CC25C	2.2	0.0	0.0%	146.4	100.0%	\$360
UA-blw	Aspen	A63a	2.1	0.0	0.0%	146.4	100.0%	\$420
UA-blw	Upper Maggie	0099-01	1.8	0.0	0.0%	146.4	100.0%	
UA abv	Little Ida	DM14	1.3	0.0	0.0%	146.4	100.0%	
CC	Adit below Open stopes	CC02G	1.3	0.0	0.0%	146.4	100.0%	
CC	*Adit above Natalie La	CC15B	1.1	0.0	0.0%	146.4	100.0%	
UA-blw	Esmeralda Mine	DM40	1.1	0.0	0.0%	146.4	100.0%	
UA abv	London Mine-East	A07LM	0.9	0.0	0.0%	146.4	100.0%	
UA-blw	Emma Mine	DM47	0.9	0.0	0.0%	146.4	100.0%	
UA abv	Prospect Lower Burro	DM31	0.7	0.0	0.0%	146.4	100.0%	
UA-blw	South Iowa adit	DM79	0.7	0.0	0.0%	146.4	100.0%	
UA abv	Unknown Mine South	DM30	0.6	0.0	0.0%	146.4	100.0%	
UA-blw	Midway Tunnel	DM74	0.5	0.0	0.0%	146.4	100.0%	
UA-blw	S side Eureka Mtn. Ne	0264-01	0.4	0.0	0.0%	146.4	100.0%	
UA-blw	Little Casino (Coming	DM73	0.5	0.0	0.0%	146.4	100.0%	
UA abv	Riverside Mine	DM9	0.4	0.0	0.0%	146.4	100.0%	
UA-blw	Queen of Maggie	DM71	0.3	0.0	0.0%	146.4	100.0%	
UA abv	Unknown Prospect Ab	DM1	0.3	0.0	0.0%	146.4	100.0%	
UA-blw	Ezra	DM58	0.3	0.0	0.0%	146.4	100.0%	
UA-blw	Innis Tunnel	DM53	0.3	0.0	0.0%	146.4	100.0%	
UA-blw	above Buckeye mine	0200-01	0.2	0.0	0.0%	146.4	100.0%	
UA abv	Prairie	DM8	0.2	0.0	0.0%	146.4	100.0%	
UA-blw	Argentine tunnel	DM78	0.2	0.0	0.0%	146.4	100.0%	
UA abv	London Mine-West	DM5	0.2	0.0	0.0%	146.4	100.0%	
UA-blw		0321-01	0.1	0.0	0.0%	146.4	100.0%	
MC	Adit 103-NW Burro B.	M27F	0.1	0.0	0.0%	146.4	100.0%	
UA-blw	Upper Maggie adit	0098-01	0.1	0.0	0.0%	146.4	100.0%	
UA-blw	Green Mtn. Mine	DM52	0.1	0.0	0.0%	146.4	100.0%	
UA-blw	adit near top Stony: S	DM50	0.1	0.0	0.0%	146.4	100.0%	
UA abv	Toltec Mine (Lower)	DM29	0.1	0.0	0.0%	146.4	100.0%	
UA-blw	Midway Mine	DM34	0.0	0.0	0.0%	146.4	100.0%	
UA-blw	Iowa	DM62	0.0	0.0	0.0%	146.4	100.0%	
UA-blw	King Solomon	DM59	0.0	0.0	0.0%	146.4	100.0%	
			0.0	0.0	0.0%	146.4	100.0%	
UA-blw	Black Prince	DM60	0.0	0.0	0.0%	146.4	100.0%	
UA-blw	Valley Forge	DM57	0.0	0.0	0.0%	146.4	100.0%	
UA-blw	Marcelle Mine	0191-01	0.0	0.0	0.0%	146.4	100.0%	
CC	Red & Bonita Mine	CC03C	0.0	0.0	0.0%	146.4	100.0%	
CC	Henrietta 7 Mine	CC24G	0.0	0.0	0.0%	146.4	100.0%	
CC	Lark Mine	CC24D	0.0	0.0	0.0%	146.4	100.0%	
CC	Mine South of Mogul	CC02E	0.0	0.0	0.0%	146.4	100.0%	
CC	Kansas City Adit #1	CC30D	0.0	0.0	0.0%	146.4	100.0%	
CC	Kansas City Adit #2	CC30E	0.0	0.0	0.0%	146.4	100.0%	
UA abv	Upper Comet Adit	A21D	0.0	0.0	0.0%	146.4	100.0%	
UA abv	Gold Prince	A23a	0.0	0.0	0.0%	146.4	100.0%	
UA-blw	Ridgeway Mine (Cryst	0199-01	0.0	0.0	0.0%	146.4	100.0%	

	Total		66411.2	146.4	100.0%			
CC	Small dump S. of Gale?		0.0					
CC	Handcock Gulch adit	CC47B	NA					
CC	Avalanche Mine	CC30K	NA					
CC	Georgia Gulch adit	CC30L	NA					
MC	Adit S. Chattanooga Cu	M10B	NA					
MC	Paradise Adit #4	M16D	NA					
MC	Adit 104-W Burro B.	M27D	NA					
MC	Bullion King		NA					
MC	Burbank Portal	M26B	NA					
MC	Paradise Adit #2	M16B	NA					
MC	Ensle Tunnel	M26C	NA					
MC	1st SW MF Min adit	M18B	NA					
MC	Adit E.of Burro Brg	M27DE	NA					
MC	Paradise Adit #3	M16C	NA					
MC	U.S. Basin #1	M07D	NA					
MC	Brooklyn slide 6	WBG10	NA					
MC	Chatanooga adit	M11B	NA					
MC	Colaps adit E.Burro	M27E	NA					
MC	Adit 103-W Burro B.	M27F	NA					
MC	Lower S.Park	M23B	NA					
UA abv	Toltec Vein above Upp	0212-01	NA					
UA abv	Little Ida Mine Drainag	DM-11	NA					
UA abv	Little Ida Mine Drainag	DM-13	NA					
UA abv	N.of Cinn. Pass	0184-01	NA					
UA abv	Middle Toltec	0218-01	NA					
UA abv	Burrows or Ida?	0088-01	NA					
UA abv	N.of Cinn. Pass	0184-02	NA					
UA abv	Adit opposite River fr	0169-01	NA					
UA-blw	Lower Randsom Mine	DM69	NA					
UA-blw	Kitti Mack	DM68	NA					
UA-blw	Shenandoah Dives Mir	DM55	NA					
UA-blw	Upper Iowa Mine	DM61	NA					
UA-blw	Champion Mine	DM76	NA					
UA-blw	SF Eureka; E facing 1/	0207-01	NA					
UA-blw	Progressive	DM42	NA					
UA-blw	Adit adj. Pond #1	0164-01	NA					
UA-blw	Little Casino (Coming	DM73	NA					
UA-blw	Adit W. &S. of Pride of	0079-01	NA					
UA-blw	Adit 1/8mi. S. of Esme	0024-01	NA					
UA-blw	Upper Minnie adit	0025-02	NA					
UA-blw	Little Maud	DM41	NA					
UA-blw	Adit 3/4 mi. S. of Esme	0025-01	NA					

					Reduction per technology:			
					Bulkhead = 50%			
					Passive Treatment = 30%			
					Active = 85%			
Reduction Costs								
Cum. Cost								
phase 1+2	Phase 1	Phase 2	%Reductions		Load Removed in #'s/day			
reductions	costs	Costs	Phase 1	Phase 2	Phase 1	Cumulative	Phase 2	
x \$1000	per site	per site				phase 1		
\$1,060	60	1000	0	50	0.00	0.00	9.80	
\$1,660	300	300	30	50	4.13	4.13	6.89	
\$2,960	300	1000	50	50	5.69	9.82	5.69	
\$3,560	300	300	50	50	5.52	15.34	5.52	
\$3,920	60	300	50	50	3.94	19.28	3.94	
\$4,220	300		50	50	3.57	22.84	3.57	
\$4,580	60	300	50	50	3.42	26.26	3.42	
\$4,580	0		0		0.00	26.26	0.00	
\$5,180	300	300	30	50	1.69	27.96	2.82	
\$6,240	60	1000	30	50	1.63	29.58	2.71	
\$6,540	300		50	50	2.34	31.93	2.34	
\$6,900	60	300	30	50	1.39	33.31	2.31	
\$7,260	60	300	30	50	1.38	34.69	2.30	
\$7,570	300	10	30	50	1.20	35.89	1.99	
\$7,880	10	300	0	50	0.00	35.89	1.37	
\$8,240	60	300	50	50	1.00	36.89	1.00	
\$8,840	300	300	30	50	0.58	37.46	0.96	
\$8,840			0	50	0.00	37.46	0.00	
\$9,900	60	1000	30	50	0.55	38.01	0.91	
\$11,200	300	1000	50	85	0.88	38.89	1.49	
			0	50	0.00	38.89	0.84	
\$11,560	60	300	30	50	0.49	39.38	0.82	
\$11,870	10	300	0	50	0.00	39.38	0.63	
\$13,170	1000	300	80	50	0.84	40.22	0.52	
\$14,470	300	1000	50	90	0.50	40.73	0.91	
\$14,780	300	10	30	30	0.29	41.02	0.29	
\$15,380	300	300	30	50	0.28	41.30	0.47	
			50	50	0.41	41.72	0.41	
\$15,980	300	300	30	50	0.23	41.95	0.39	
\$16,280	0	300	30	85	0.23	42.18	0.65	
\$16,880	300	300	50	50	0.38	42.56	0.38	
\$16,880	0		0	0	0.00	42.56	0.00	
			0	0	0.00	42.56	0.00	
			85	85	0.40	42.96	0.40	

\$360	60	300	30	50	0.14	43.10	0.23
\$1,420	60	1000	0	50	0.00	43.10	0.22
\$1,720	300		50	50	0.21	43.31	0.21
			0	0	0.00	43.31	0.00
\$310	10	300	0	50	0.00	43.31	0.20
\$370	60		30	0	0.11	43.41	0.00
\$370			0	0	0.00	43.41	0.00
			0	0	0.00	43.41	0.00
			50	50	0.15	43.56	0.15
			30	30	0.09	43.65	0.09
			50	50	0.14	43.79	0.14
			50	50	0.13	43.92	0.13
			50	50	0.13	44.05	0.13
			0	0	0.00	44.05	0.00
\$600	300	300	50	80	0.12	44.17	0.20
			0	0	0.00	44.17	0.00
\$600	300	300	50	30	0.11	44.28	0.07
			50	50	0.10	44.38	0.10
\$1,000	1000	0	50	50	0.09	44.47	0.09
\$1,000	0		0		0.00	44.47	0.00
\$1,310	10	300	30	50	0.05	44.52	0.08
			50	50	0.07	44.59	0.07
\$60	60		50	50	0.07	44.67	0.07
			0	50	0.00	44.67	0.07
			0	50	0.00	44.67	0.07
			0	0	0.00	44.67	0.00
			0	0	0.00	44.67	0.00
\$600	300	300	50	50	0.06	44.72	0.06
			0		0.00	44.72	0.00
\$1,300	300	1000	50	30	0.04	44.76	0.02
			0	0	0.00	44.76	0.00
			30	50	0.02	44.78	0.04
			0	50	0.00	44.78	0.03
\$360	60	300	50	80	0.03	44.82	0.05
			0	0	0.00	44.82	0.00
\$0	0		0	0	0.00	44.82	0.00
			0	0	0.00	44.82	0.00
\$0	0		0	0	0.00	44.82	0.00
			0	0	0.00	44.82	0.00
			30	30	0.01	44.83	0.01
			30	50	0.01	44.84	0.02
			0		0.00	44.84	0.00
			50	0	0.01	44.85	0.00
			0	0	0.00	44.85	0.00
			0	0	0.00	44.85	0.00
			0	0	0.00	44.85	0.00
			50	50	0.01	44.86	0.01
			0	0	0.00	44.86	0.00
			0	0	0.00	44.86	0.00

			0		0.00	44.86	0.00
			0	0	0.00	44.86	0.00
\$60	60		50	50	0.00	44.86	0.00
\$660	300	300	30	50	0.00	44.86	0.00
\$1,720	60	1000	30	85	0.00	44.86	0.00
			0		0.00	44.86	0.00
			0	0	0.00	44.86	0.00
			0		0.00	44.86	0.00
			30	50	0.00	44.86	0.00
			0		0.00	44.86	0.00
			0	0	0.00	44.86	0.00
			0		0.00	44.86	0.00
			0	0	0.00	44.86	0.00
			50	50	0.00	44.86	0.00
			0		0.00	44.86	0.00
			0		0.00	44.86	0.00
			0		0.00	44.86	0.00
			30		0.00	44.86	0.00
			0		0.00	44.86	0.00
			0	0	0.00	44.86	0.00
			50	50	0.00	44.86	0.00
			0		0.00	44.86	0.00
			0	0	0.00	44.86	0.00
			0		0.00	44.86	0.00
					0.00	44.86	0.00
			0		0.00	44.86	0.00
			0		0.00	44.86	0.00
			0	0	0.00	44.86	0.00
			0		0.00	44.86	0.00
			30	30	0.00	44.86	0.00
			0		0.00	44.86	0.00
			0		0.00	44.86	0.00
			0		0.00	44.86	0.00
			0	0	0.00	44.86	0.00
			0	0	0.00	44.86	0.00
					0.00	44.86	0.00
			0		0.00	44.86	0.00
			0		0.00	44.86	0.00
			0		0.00	44.86	0.00
			0		0.00	44.86	0.00
			30	30	0.00	44.86	0.00
			50	85	0.00	44.86	0.00
			50	50	0.00	44.86	0.00
			0	0	0.00	44.86	0.00
			0	0	0.00	44.86	0.00
			0	50	0.00	44.86	0.00
			0	0	0.00	44.86	0.00
			0		0.00	44.86	0.00

CUMULATIVE ADIT LOADING, REDUCTIONS AND COSTS - ALUMINUM

(0 values = below detection limit)

2/21/2001

Basin	ARSG Designation NEW DES Site #	AI value (grams/d)	AI value (lbs/d)	Low Flow Loading		Reduction Costs		
				Percent		Cum.Costs	Cum. Cost	
				of Total	Cumulative	phase 1	phase 1+2	
				Adit Loading	Loading	Cumulative reductions	reductions	
				(lbs/d)	(lbs/d)	percentage	x \$1000	x \$1000
CC	Gold King		60.1					
MC	Kohler ad M02K	12585.8	27.7	27.0%	27.7	27.0%	\$60	\$360
MC	Paradise M16	12483.6	27.5	26.8%	55.3	53.7%	\$120	\$1,420
MC	Anvil Mtn. M33B	6380.2	14.1	13.7%	69.3	67.4%		
CC	Red & Bonita Mine		13.5					
CC	American Tunnel		7.0					
CC	Silver Led CC14	1795.3	4.0	3.8%	73.3	71.2%	\$420	\$2,020
UA abv Eu	N side of (0219-01	1756.1	3.9	3.8%	77.2	75.0%	\$480	\$2,380
MC	Ferrocete M13D	1223.1	2.7	2.6%	79.9	77.6%	\$780	\$2,680
CC	Evelyn Mi CC21C	1067.4	2.4	2.3%	82.2	79.9%	\$1,780	\$3,680
CC	Mogul		2.0					
MC	Bonner M M21B	862.8	1.9	1.8%	84.1	81.8%	\$2,080	\$4,280
UA abv Eu	Lower Co A21A	859.5	1.9	1.8%	86.0	83.6%	\$2,090	\$4,590
MC	Lower Bo M21D	710.4	1.6	1.5%	87.6	85.1%	\$2,390	\$5,190
MC	Upper Bo M21F	685.6	1.5	1.5%	89.1	86.6%	\$2,690	\$6,490
UA abv Eu	Senator DM24	667.7	1.5	1.4%	90.6	88.0%	\$2,990	\$7,090
CC	Big Color CC16C	555.8	1.2	1.2%	91.8	89.2%		
MC	Lower Bo M21	421.2	0.9	0.9%	92.7	90.1%	\$2,990	\$7,090
MC	Brooklyn IM12C	414.4	0.9	0.9%	93.6	91.0%	\$3,290	\$7,690
MC	INDEPENIM21H	409.8	0.9	0.9%	94.5	91.9%		
CC	Monarch ICC38C	332.9	0.7	0.7%	95.3	92.6%	\$3,300	\$8,000
MC	North Stair M31	300.8	0.7	0.6%	95.9	93.3%	\$3,600	\$9,300
CC	Mammoth CC29B	279.1	0.6	0.6%	96.5	93.8%	\$3,660	\$9,660
CC	Grand Mo CC01C	270.0	0.6	0.6%	97.1	94.4%	\$3,720	\$10,720
CC	Adit below CC30J	253.1	0.6	0.5%	97.7	95.0%		
CC	Mogul CC02D	244.6	0.5	0.5%	98.2	95.5%	\$1,000	\$1,300
MC	Imogene IM13B	189.4	0.4	0.4%	98.7	95.9%		
UA-blw	Forest Qu A41	172.0	0.4	0.4%	99.0	96.3%		
MC	Junction IM02B	146.7	0.3	0.3%	99.4	96.6%	\$300	\$1,300
UA abv Eu	Columbus DM20	138.4	0.3	0.3%	99.7	96.9%	\$600	\$1,900
MC	Adit 104-VM27D	124.5	0.3	0.3%	99.9	97.1%	\$600	\$1,900
CC	Anglo-Sax CC37	107.9	0.2	0.2%	100.2	97.4%	\$660	\$2,260
UA-blw	Royal Tiger DM63	98.1	0.2	0.2%	100.4	97.6%	\$960	\$2,860
CC	Joe & John CC25C	97.4	0.2	0.2%	100.6	97.8%	\$1,260	\$3,460
UA abv Eu	Little Chief DM3	94.6	0.2	0.2%	100.8	98.0%		
CC	Occidental CC13D	94.3	0.2	0.2%	101.0	98.2%		
CC	Elk tunnel CC32	85.6	0.2	0.2%	101.2	98.4%	\$300	\$310
UA abv Eu	Vermillion DM17	81.6	0.2	0.2%	101.4	98.6%	\$600	\$610

CC	Unnamed adit between Mogul & Mine 1/2 n	66.9	0.2	0.2%	101.6	98.7%	\$660	\$670
CC	CC10B	66.9	0.1	0.1%	101.7	98.9%		
UA abv Eu	Lucky Jack A02B	64.5	0.1	0.1%	101.8	99.0%	\$60	\$360
UA abv Eu	Mountain A19a	49.3	0.1	0.1%	102.0	99.1%	\$360	\$960
UA-blw	Joseph N DM75	46.1	0.1	0.1%	102.1	99.2%		
UA abv Eu	Silver Win A29	36.3	0.1	0.1%	102.1	99.3%	\$0	\$300
UA abv Eu	Golden F DM27	34.9	0.1	0.1%	102.2	99.4%		
UA abv Eu	Bagley Tu A12	34.6	0.1	0.1%	102.3	99.4%	\$300	\$600
MC	Upper Br M12F	31.0	0.1	0.1%	102.4	99.5%		
UA abv Eu	Sound De DM26	29.8	0.1	0.1%	102.4	99.6%	\$60	\$360
CC	Porcupine CC38B	27.7	0.1	0.1%	102.5	99.6%	\$120	\$1,420
CC	River righ ?	27.1	0.1	0.1%	102.5	99.7%		
UA-blw	Little Nati DM56	24.1	0.1	0.1%	102.6	99.7%	\$300	\$600
MC	Bandora IM24	15.5	0.0	0.0%	102.6	99.8%	\$360	\$1,660
CC	Adit below CC02G	13.7	0.0	0.0%	102.7	99.8%		
CC	Queen An CC01A	13.5	0.0	0.0%	102.7	99.8%	\$10	\$310
UA abv Eu	Vermillion A16	11.6	0.0	0.0%	102.7	99.9%	\$10	\$310
CC	*Adit above CC15B	10.6	0.0	0.0%	102.7	99.9%		
MC	COLLAPSE M22B	9.8	0.0	0.0%	102.8	99.9%		
UA-blw	Mighty Mc A69	9.1	0.0	0.0%	102.8	99.9%		
UA-blw	Ben Frank DM32	7.5	0.0	0.0%	102.8	99.9%		
UA abv Eu	Early Bird DM4	4.5	0.0	0.0%	102.8	99.9%		
UA-blw	Unknown DM72	4.1	0.0	0.0%	102.8	100.0%		
UA-blw	Midway T DM74	2.5	0.0	0.0%	102.8	100.0%		
UA abv Eu	Burrows IA17a	2.5	0.0	0.0%	102.8	100.0%		
UA abv Eu	Silver Qu DM25	2.3	0.0	0.0%	102.8	100.0%		
UA-blw	Unknown DM38	2.3	0.0	0.0%	102.8	100.0%		
UA-blw	South low DM79	1.9	0.0	0.0%	102.8	100.0%		
MC	U.S. Basin M07C	1.6	0.0	0.0%	102.8	100.0%		
UA abv Eu	Toltec Mir DM29	1.5	0.0	0.0%	102.9	100.0%		
UA-blw	Upper Ma 0099-01	1.1	0.0	0.0%	102.9	100.0%		
UA abv Eu	Little Ida DM14	0.9	0.0	0.0%	102.9	100.0%		
UA-blw	Marcelle M0191-01	0.7	0.0	0.0%	102.9	100.0%		
CC	Lewis pro CC01P	0.5	0.0	0.0%	102.9	100.0%	\$60	\$60
UA abv Eu	Unknown DM1	0.5	0.0	0.0%	102.9	100.0%		
UA abv Eu	Riverside DM9	0.4	0.0	0.0%	102.9	100.0%		
UA-blw	S side Eu 00264-01	0.8	0.0	0.0%	102.9	100.0%		
UA abv Eu	Prospect ID M31	0.3	0.0	0.0%	102.9	100.0%		
UA abv Eu	London MA07LMS	0.3	0.0	0.0%	102.9	100.0%		
UA-blw	Bavarian DM33	0.3	0.0	0.0%	102.9	100.0%		
UA abv Eu	Burrows IA17b	0.3	0.0	0.0%	102.9	100.0%		
UA-blw	adit near ID M50	0.2	0.0	0.0%	102.9	100.0%		
MC	Adit 103-M M27F	0.2	0.0	0.0%	102.9	100.0%		
UA abv Eu	London N DM5	0.2	0.0	0.0%	102.9	100.0%		
UA-blw	above Bu 00200-01	0.1	0.0	0.0%	102.9	100.0%		
UA-blw	Ridgeway 0199-01	0.1	0.0	0.0%	102.9	100.0%		
UA-blw	Pride of th A50	0.0	0.0	0.0%	102.9	100.0%	\$60	\$360
UA-blw	Aspen A63a	0.0	0.0	0.0%	102.9	100.0%	\$120	\$1,420
CC	Yukon Mir CC43C	0.0	0.0	0.0%	102.9	100.0%	\$180	\$1,780

CC	Black Hawk	CC13C	0.0	0.0	0.0%	102.9	100.0%	\$190	\$2,090
UA-blw	Old Hundred	A49	0.0	0.0	0.0%	102.9	100.0%	\$190	\$2,090
MC	Ruby Trust	M17B	0.0	0.0	0.0%	102.9	100.0%	\$490	\$2,390
UA abv Eu	Tom Moor	DM22	0.0	0.0	0.0%	102.9	100.0%	\$490	\$2,390
UA abv Eu	London MA	07LM	0.0	0.0	0.0%	102.9	100.0%	\$490	\$2,390
UA-blw	Pittsburgh	A71	0.0	0.0	0.0%	102.9	100.0%	\$490	\$2,390
UA-blw	Auburn	DM36	0.0	0.0	0.0%	102.9	100.0%	\$550	\$2,450
UA-blw	Hamlet	DM39	0.0	0.0	0.0%	102.9	100.0%	\$850	\$2,760
MC	Little Dorset	M37	0.0	0.0	0.0%	102.9	100.0%	\$1,150	\$4,060
UA-blw	Moonbear	DM35	0.0	0.0	0.0%	102.9	100.0%		
UA abv Eu	Treasure IA	A26B	0.0	0.0	0.0%	102.9	100.0%		
MC	Boston	M36	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	Green Mtn	DM52	0.0	0.0	0.0%	102.9	100.0%		
MC	Silver Creek	M09	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	Bradley ton	DM54	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	Unknown	DM37	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	Last Chance	DM66	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	Innis Tunica	DM53	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	Hidden Trail	DM44	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	Little Casino	DM73	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	Silver State	DM43	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	Oyama ton	DM49	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	Argentine	DM78	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	Emma Mine	DM47	0.0	0.0	0.0%	102.9	100.0%		
UA abv Eu	Prairie	DM8	0.0	0.0	0.0%	102.9	100.0%		
UA abv Eu	Indian Child	DM28	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	Iowa	DM62	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	Black Prairie	DM60	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	Valley Forge	DM57	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	Ezra	DM58	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	Queen of	DM71	0.0	0.0	0.0%	102.9	100.0%		
UA abv Eu	Unknown	DM30	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	Smuggler	DM46	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	Esmeralda	DM40	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	Jess Mine	DM77	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	King Solo	DM59	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	Midway	MDM34	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	0321-01		0.0	0.0	0.0%	102.9	100.0%		
UA-blw	Upper Main	0098-01	0.0	0.0	0.0%	102.9	100.0%		
			0.0	0.0	0.0%	102.9	100.0%		
CC	Red & Boy	CC03C	0.0	0.0	0.0%	102.9	100.0%		
CC	Henrietta	CC24G	0.0	0.0	0.0%	102.9	100.0%		
CC	Lark Mine	CC24D	0.0	0.0	0.0%	102.9	100.0%		
CC	Mine South	CC02E	0.0	0.0	0.0%	102.9	100.0%		
CC	Kansas City	CC30D	0.0	0.0	0.0%	102.9	100.0%		
CC	Kansas City	CC30E	0.0	0.0	0.0%	102.9	100.0%		
UA abv Eu	Upper Coal	A21D	0.0	0.0	0.0%	102.9	100.0%		
UA abv Eu	Gold Prince	A23a	0.0	0.0	0.0%	102.9	100.0%		
UA-blw	Blair Mtn.	DM65	0.0	0.0	0.0%	102.9	100.0%		

Total	46661.2	102.9	100.0%
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CC	Small dun?	0.0	
CC	HandcockCC47B	NA	
CC	AvalancheCC30K	NA	
CC	Georgia GCC30L	NA	
MC	Adit S. ChM10B	NA	
MC	Paradise /M16D	NA	
MC	Adit 104-VM27D	NA	
MC	Bullion King	NA	
MC	Burbank FM26B	NA	
MC	Paradise /M16B	NA	
MC	Ensle TunM26C	NA	
MC	1st SW MIM18B	NA	
MC	Adit E.of IM27DE	NA	
MC	Paradise /M16C	NA	
MC	U.S. BasirM07D	NA	
MC	Brooklyn WBG10	NA	
MC	ChatanooM11B	NA	
MC	Colaps adM27E	NA	
MC	Adit 103-VM27F	NA	
MC	Lower S.PM23B	NA	
UA abv Eu	Toltec Vei0212-01	NA	
UA abv Eu	Little Ida IDM-11	NA	
UA abv Eu	Little Ida IDM-13	NA	
UA abv Eu	N.of Cinn.0184-01	NA	
UA abv Eu	Middle To0218-01	NA	
UA abv Eu	Burrows c0088-01	NA	
UA abv Eu	N.of Cinn.0184-02	NA	
UA abv Eu	Adit oppo0169-01	NA	
UA-blw	Lower RaiDM69	NA	
UA-blw	Kitti MackDM68	NA	
UA-blw	ShenandoDM55	NA	
UA-blw	Upper lowDM61	NA	
UA-blw	ChampionDM76	NA	
UA-blw	SF Eureka0207-01	NA	
UA-blw	ProgressiDM42	NA	
UA-blw	Adit adj. F0164-01	NA	
UA-blw	Little CasiDM73	NA	
UA-blw	Adit W. &0079-01	NA	
UA-blw	Adit 1/8mi0024-01	NA	
UA-blw	Upper Mir0025-02	NA	
UA-blw	Little MauDM41	NA	
UA-blw	Adit 3/4 m0025-01	NA	

Reduction per technology:

Bulkhead = 50%

Passive Treatment = 30%

Active = 85%

Phase 1 costs per site	Phase 2 Costs per site	%Reductions		Load Removed in #'s/day		
		Phase 1	Phase 2	Phase 1	Cumulative phase 1	Phase 2
60	300	50	50	13.88	13.88	13.88
60	1000	0	50	0.00	13.88	13.76
		0	0	0.00	13.88	0.00
300	300	50	50	1.98	15.86	1.98
60	300	30	50	1.16	17.02	1.94
300		50	50	1.35	18.37	1.35
1000	0	50	50	1.18	19.54	1.18
300	300	50	50	0.95	20.49	0.95
10	300	0	50	0.00	20.49	0.95
300	300	30	50	0.47	20.96	0.78
300	1000	50	90	0.76	21.72	1.36
300	300	30	50	0.44	22.16	0.74
		50	50	0.61	22.77	0.61
		0	0	0.00	22.77	0.00
300	300	30	50	0.27	23.05	0.46
		50	50	0.45	23.50	0.45
10	300	30	50	0.22	23.72	0.37
300	1000	50	50	0.33	24.05	0.33
60	300	30	50	0.18	24.24	0.31
60	1000	0	50	0.00	24.24	0.30
		0	50	0.00	24.24	0.28
1000	300	80	50	0.43	24.67	0.27
		50	50	0.21	24.88	0.21
		85	85	0.32	25.20	0.32
300	1000	50	30	0.16	25.36	0.10
300	300	50	30	0.15	25.51	0.09
		0	0	0.00	25.51	0.00
60	300	30	50	0.07	25.58	0.12
300	300	50	80	0.11	25.69	0.17
300	300	30	50	0.06	25.76	0.11
		50	50	0.10	25.86	0.10
		0	50	0.00	25.86	0.10
300	10	30	50	0.06	25.92	0.09
300		50	50	0.09	26.01	0.09

60		50	50	0.09	26.09	0.09
		0	50	0.00	26.09	0.07
60	300	50	80	0.07	26.16	0.11
300	300	50	50	0.05	26.22	0.05
		0		0.00	26.22	0.00
0	300	30	85	0.02	26.24	0.07
		50	50	0.04	26.28	0.04
300	300	30	50	0.02	26.30	0.04
		30	50	0.02	26.32	0.03
60	300	50	50	0.03	26.36	0.03
60	1000	30	50	0.02	26.38	0.03
		0	0	0.00	26.38	0.00
300	300	30	50	0.02	26.39	0.03
60	1000	30	50	0.01	26.40	0.02
		0		0.00	26.40	0.00
10	300	0	50	0.00	26.40	0.01
0		0	0	0.00	26.40	0.00
		30	50	0.01	26.41	0.01
		0	0	0.00	26.41	0.00
		0	0	0.00	26.41	0.00
		50	50	0.01	26.42	0.01
		0	0	0.00	26.42	0.00
		0	0	0.00	26.42	0.00
		0		0.00	26.42	0.00
		0	0	0.00	26.42	0.00
		50	50	0.00	26.42	0.00
		30	30	0.00	26.42	0.00
		50	50	0.00	26.42	0.00
		0	0	0.00	26.42	0.00
		0		0.00	26.42	0.00
		0		0.00	26.42	0.00
		0	0	0.00	26.42	0.00
		0		0.00	26.42	0.00
60		50	50	0.00	26.42	0.00
		50	50	0.00	26.42	0.00
		0		0.00	26.42	0.00
		0		0.00	26.42	0.00
		0	0	0.00	26.42	0.00
		0	0	0.00	26.42	0.00
		50	0	0.00	26.43	0.00
		0	0	0.00	26.43	0.00
		0		0.00	26.43	0.00
		0	0	0.00	26.43	0.00
		0		0.00	26.43	0.00
60	300	30	50	0.00	26.43	0.00
60	1000	30	85	0.00	26.43	0.00
60	300	50	50	0.00	26.43	0.00

[illegible]

		0.00	26.43	0.00
		0.00	26.43	0.00
		0.00	26.43	0.00
	0	?	0.00	26.43
	0	50		
	30	30		
	0	50		
	30	50		
	0	0		
	0	0		
	30	50		
	0	50		
	0	50		
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	0	0		
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	0	0		
	50	85		
	0	0		
	0	0		
	0	0		
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	0			
	0	0		
	0	0		
	0	0		
	0	0		
	0	0		
	0	0		
	30	30		
	0			
	0			
	0			
	0			

CUMULATIVE ADIT LOADING, REDUCTIONS AND COSTS - IRON

(0 values = below detection limit)

2/21/2001

Basin	ARSG Designation NEW DES Site #	Low Flow Loading					Reduction Costs	
		Fe value (grams/d)	Fe value (lbs/d)	Adit Loading	Percent of Total Cumulative Loading (lbs/d)	Cumulative reductions percentage	Cum.Costs phase 1 x \$1000	Cum. Cost phase 1+2 x \$1000
CC	Red & Bonita Mine		356					
MC	Kohler ad M02K	119583.6	263.6	34.0%	263.6	34.0%	\$60	\$360
MC	Paradise M16	111364.1	245.5	31.7%	509.1	65.7%	\$120	\$1,420
CC	Gold King		224.0					
CC	American Tunnel		192.0					
CC	Silver Led CC14	25221.4	55.6	7.2%	564.7	72.8%	\$420	\$2,020
MC	Ferrocete M13D	14358.6	31.7	4.1%	596.4	76.9%	\$720	\$2,320
UA abv Eu	Senator DM24	10547.3	23.3	3.0%	619.7	79.9%	\$1,020	\$2,920
CC	Mogul		20.7					
CC	Mammoth CC29B	7204.2	15.9	2.0%	635.5	82.0%	\$1,080	\$3,280
CC	Anglo-Sa CC37	6748.3	14.9	1.9%	650.4	83.9%	\$1,140	\$3,640
MC	Anvil Mtn. M33B	5737.8	12.6	1.6%	663.1	85.5%		
CC	Porcupine CC38B	4377.2	9.6	1.2%	672.7	86.8%	\$1,200	\$4,700
MC	Brooklyn IM12C	3682.5	8.1	1.0%	680.8	87.8%	\$1,500	\$5,300
CC	Elk tunnel CC32	3534.1	7.8	1.0%	688.6	88.8%	\$1,800	\$5,610
CC	Yukon Mir CC43C	3270.3	7.2	0.9%	695.8	89.8%	\$1,860	\$5,970
CC	Big Color CC16C	2613.4	5.8	0.7%	701.6	90.5%		
MC	North Star M31	2611.3	5.8	0.7%	707.4	91.2%	\$2,160	\$7,270
CC	Mogul CC02D	2367.1	5.2	0.7%	712.6	91.9%	\$3,160	\$8,570
MC	Imogene IM13B	2226.4	4.9	0.6%	717.5	92.5%		
MC	Adit 104-VM27D	2103.3	4.6	0.6%	722.1	93.1%	\$0	\$0
UA-blw	Forest Qu A41	2066.8	4.6	0.6%	726.7	93.7%		
MC	Ruby Tru M17B	1957.8	4.3	0.6%	731.0	94.3%	\$300	\$300
UA-blw	Little Nati DM56	1841.0	4.1	0.5%	735.0	94.8%	\$600	\$900
CC	Evelyn Mi CC21C	1512.9	3.3	0.4%	738.4	95.2%	\$1,600	\$1,900
CC	Adit below CC30J	1483.1	3.3	0.4%	741.6	95.7%		
MC	Junction IM02B	1345.0	3.0	0.4%	744.6	96.0%	\$300	\$1,300
UA-blw	Unknown DM37	1091.5	2.4	0.3%	747.0	96.4%		
MC	Upper Boi M21F	1088.2	2.4	0.3%	749.4	96.7%	\$300	\$1,300
CC	Monarch ICC38C	1087.4	2.4	0.3%	751.8	97.0%	\$310	\$1,610
CC	Occidenta CC13D	943.9	2.1	0.3%	753.9	97.2%		
MC	Lower Boi M21D	941.5	2.1	0.3%	756.0	97.5%	\$300	\$600
MC	Bandora IM24	899.5	2.0	0.3%	758.0	97.8%	\$360	\$1,660
MC	Bonner M M21B	889.5	2.0	0.3%	759.9	98.0%	\$660	\$2,260
MC	Lower Boi M21	777.7	1.7	0.2%	761.6	98.2%	\$660	\$2,260
CC	Lewis pro CC01P	739.2	1.6	0.2%	763.3	98.5%	\$720	\$2,320
UA abv Eu	Lower Coi A21A	626.6	1.4	0.2%	764.6	98.6%	\$730	\$2,630
MC	COLLAPSM22B	571.6	1.3	0.2%	765.9	98.8%		

UA abv Eu	Columbus	DM20	567.9	1.3	0.2%	767.2	99.0%	\$300	\$600
UA abv Eu	Vermillion	DM17	540.7	1.2	0.2%	768.3	99.1%	\$600	\$900
CC	Joe & Joh	CC25C	454.7	1.0	0.1%	769.4	99.2%	\$900	\$1,500
UA abv Eu	N side of	0219-01	449.2	1.0	0.1%	770.3	99.4%	\$960	\$1,860
CC	Unnamed adit between	Moogul	771.0	0.6	0.1%	771.0	99.4%	\$1,020	\$1,920
UA abv Eu	Silver Win	A29	237.9	0.5	0.1%	771.5	99.5%	\$1,020	\$2,220
MC	Upper Br	M12F	202.8	0.4	0.1%	771.9	99.6%		
UA-blw	Hamlet	DM39	170.8	0.4	0.0%	772.3	99.6%	\$300	\$310
UA-blw	Last Chan	DM66	167.3	0.4	0.0%	772.7	99.7%		
CC	River righ	?	117.4	0.3	0.0%	772.9	99.7%		
UA abv Eu	Mountain A	19a	111.0	0.2	0.0%	773.2	99.7%	\$300	\$600
UA-blw	Smuggler	DM46	99.8	0.2	0.0%	773.4	99.8%		
UA-blw	Auburn	DM36	98.0	0.2	0.0%	773.6	99.8%	\$60	\$60
UA-blw	Blair Mtn.	DM65	90.5	0.2	0.0%	773.8	99.8%		
UA abv Eu	Bagley Tu	A12	89.5	0.2	0.0%	774.0	99.8%	\$300	\$600
UA-blw	Hidden Tr	DM44	62.5	0.1	0.0%	774.2	99.9%		
UA abv Eu	Little Chie	DM3	52.7	0.1	0.0%	774.3	99.9%		
UA abv Eu	Lucky Jac	A02B	47.9	0.1	0.0%	774.4	99.9%	\$60	\$360
UA-blw	Unknown	DM38	43.3	0.1	0.0%	774.5	99.9%		
UA-blw	Oyama tu	DM49	36.8	0.1	0.0%	774.6	99.9%		
CC	*Adit abo	CC15B	34.1	0.1	0.0%	774.6	99.9%		
CC	Grand Mo	CC01C	30.9	0.1	0.0%	774.7	99.9%	\$60	\$1,060
UA abv Eu	Silver Que	DM25	26.4	0.1	0.0%	774.8	99.9%		
UA abv Eu	Golden FI	DM27	25.0	0.1	0.0%	774.8	99.9%		
CC	Black Hav	CC13C	24.3	0.1	0.0%	774.9	99.9%	\$10	\$310
UA-blw	Queen of	DM71	20.8	0.0	0.0%	774.9	100.0%		
MC	Boston	M36	16.8	0.0	0.0%	774.9	100.0%		
MC	Silver Cro	M09	15.4	0.0	0.0%	775.0	100.0%		
CC	Queen An	CC01A	12.1	0.0	0.0%	775.0	100.0%	\$10	\$310
UA-blw	Joseph N	DM75	12.0	0.0	0.0%	775.0	100.0%		
UA-blw	Moonbear	DM35	11.6	0.0	0.0%	775.1	100.0%		
UA-blw	above Bu	0200-01	11.6	0.0	0.0%	775.1	100.0%		
UA-blw	Pittsburg	A71	9.0	0.0	0.0%	775.1	100.0%	\$0	\$0
UA-blw	Unknown	DM72	8.5	0.0	0.0%	775.1	100.0%		
UA-blw	Mighty Mc	A69	7.3	0.0	0.0%	775.1	100.0%		
UA-blw	Bavarian	DM33	7.0	0.0	0.0%	775.2	100.0%		
UA-blw	Royal Tig	DM63	5.9	0.0	0.0%	775.2	100.0%	\$300	\$600
UA abv Eu	London MA	07LM	5.9	0.0	0.0%	775.2	100.0%	\$300	\$600
UA abv Eu	Vermillion	A16	5.5	0.0	0.0%	775.2	100.0%	\$300	\$600
UA abv Eu	Sound De	DM26	5.0	0.0	0.0%	775.2	100.0%	\$360	\$960
UA-blw	Silver Sta	DM43	3.8	0.0	0.0%	775.2	100.0%		
UA-blw	Ben Frank	DM32	3.4	0.0	0.0%	775.2	100.0%		
UA abv Eu	Tom Moor	DM22	2.9	0.0	0.0%	775.2	100.0%	\$0	\$0
CC	Mine 1/2 n	CC10B	2.8	0.0	0.0%	775.2	100.0%		
UA abv Eu	Early Bird	DM4	2.2	0.0	0.0%	775.2	100.0%		
UA-blw	S side Eu	0264-01	1.3	0.0	0.0%	775.2	100.0%		
MC	Little Dor	M37	1.9	0.0	0.0%	775.2	100.0%	\$300	\$1,300
UA-blw	Marcelle	M0191-01	1.6	0.0	0.0%	775.2	100.0%		
UA abv Eu	London MA	07LMS	1.4	0.0	0.0%	775.2	100.0%		

UA abv Eu	Riverside DM9	1.0	0.0	0.0%	775.3	100.0%		
UA abv Eu	Toltec MirDM29	1.0	0.0	0.0%	775.3	100.0%		
UA-blw	Jess MineDM77	0.9	0.0	0.0%	775.3	100.0%		
UA abv Eu	Unknown DM1	0.7	0.0	0.0%	775.3	100.0%		
UA-blw	Emma MirDM47	0.6	0.0	0.0%	775.3	100.0%		
UA-blw	Upper Ma0099-01	0.3	0.0	0.0%	775.3	100.0%		
UA-blw	South lowDM79	0.3	0.0	0.0%	775.3	100.0%		
UA-blw	adit near 1DM50	0.2	0.0	0.0%	775.3	100.0%		
UA abv Eu	Little Ida DM14	0.1	0.0	0.0%	775.3	100.0%		
UA abv Eu	Prospect IDM31	0.1	0.0	0.0%	775.3	100.0%		
UA abv Eu	Indian ChiDM28	0.1	0.0	0.0%	775.3	100.0%		
UA-blw	Green MtrDM52	0.1	0.0	0.0%	775.3	100.0%		
UA-blw	Little CasiDM73	0.0	0.0	0.0%	775.3	100.0%		
UA abv Eu	Burrows IA17a	0.0	0.0	0.0%	775.3	100.0%		
UA-blw	King SoloDM59	0.0	0.0	0.0%	775.3	100.0%		
UA-blw	Upper Ma0098-01	0.0	0.0	0.0%	775.3	100.0%		
UA abv Eu	Unknown DM30	0.0	0.0	0.0%	775.3	100.0%		
UA abv Eu	Prairie DM8	0.0	0.0	0.0%	775.3	100.0%		
		0.0	0.0	0.0%	775.3	100.0%		
UA-blw	Pride of thA50	0.0	0.0	0.0%	775.3	100.0%	\$60	\$360
UA-blw	Aspen A63a	0.0	0.0	0.0%	775.3	100.0%	\$120	\$1,420
UA-blw	Old HundIA49	0.0	0.0	0.0%	775.3	100.0%	\$120	\$1,420
UA abv Eu	Burrows IA17b	0.0	0.0	0.0%	775.3	100.0%		
CC	Adit belowCC02G	0.0	0.0	0.0%	775.3	100.0%		
UA abv Eu	Treasure IA26B	0.0	0.0	0.0%	775.3	100.0%		
UA-blw	Bradley tuDM54	0.0	0.0	0.0%	775.3	100.0%		
UA-blw	Innis TunrDM53	0.0	0.0	0.0%	775.3	100.0%		
UA-blw	Argentine DM78	0.0	0.0	0.0%	775.3	100.0%		
MC	U.S.Basin M07C	0.0	0.0	0.0%	775.3	100.0%		
UA-blw	Iowa DM62	0.0	0.0	0.0%	775.3	100.0%		
UA-blw	Black PriDM60	0.0	0.0	0.0%	775.3	100.0%		
UA-blw	Valley ForDM57	0.0	0.0	0.0%	775.3	100.0%		
UA-blw	Ezra DM58	0.0	0.0	0.0%	775.3	100.0%		
UA-blw	Midway TIDM74	0.0	0.0	0.0%	775.3	100.0%		
UA-blw	EsmeraldaDM40	0.0	0.0	0.0%	775.3	100.0%		
UA-blw	Midway MDM34	0.0	0.0	0.0%	775.3	100.0%		
UA-blw	0321-01	0.0	0.0	0.0%	775.3	100.0%		
UA abv Eu	London NDM5	0.0	0.0	0.0%	775.3	100.0%		
CC	Red & BoiCC03C	0.0	0.0	0.0%	775.3	100.0%		
CC	Henrietta CC24G	0.0	0.0	0.0%	775.3	100.0%		
CC	Lark MineCC24D	0.0	0.0	0.0%	775.3	100.0%		
CC	Mine SoutCC02E	0.0	0.0	0.0%	775.3	100.0%		
CC	Kansas CiCC30D	0.0	0.0	0.0%	775.3	100.0%		
CC	Kansas CiCC30E	0.0	0.0	0.0%	775.3	100.0%		
MC	Adit 103-MDM27F	0.0	0.0	0.0%	775.3	100.0%		
UA abv Eu	Upper CoiA21D	0.0	0.0	0.0%	775.3	100.0%		
UA abv Eu	Gold PrinA23a	0.0	0.0	0.0%	775.3	100.0%		
UA-blw	Ridgeway0199-01	0.0	0.0	0.0%	775.3	100.0%		
MC	INDEPENIM21H		0.0	0.0%	775.3	100.0%		

Total	351658.9	775.3	100.0%
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CC	Small dun?	0.0	
CC	HandcockCC47B	NA	
CC	AvalancheCC30K	NA	
CC	Georgia GCC30L	NA	
MC	Adit S. ChM10B	NA	
MC	Paradise /M16D	NA	
MC	Adit 104-VM27D	NA	
MC	Bullion King	NA	
MC	Burbank FM26B	NA	
MC	Paradise /M16B	NA	
MC	Ensle TunM26C	NA	
MC	1st SW MIM18B	NA	
MC	Adit E.of IM27DE	NA	
MC	Paradise /M16C	NA	
MC	U.S. BasirM07D	NA	
MC	Brooklyn WBG10	NA	
MC	ChatanooM11B	NA	
MC	Colaps adM27E	NA	
MC	Adit 103-VM27F	NA	
MC	Lower S.PM23B	NA	
UA abv Eu	Toltec Vei0212-01	NA	
UA abv Eu	Little Ida IDM-11	NA	
UA abv Eu	Little Ida IDM-13	NA	
UA abv Eu	N.of Cinn.0184-01	NA	
UA abv Eu	Middle To0218-01	NA	
UA abv Eu	Burrows c0088-01	NA	
UA abv Eu	N.of Cinn.0184-02	NA	
UA abv Eu	Adit oppo0169-01	NA	
UA-blw	Lower RaiDM69	NA	
UA-blw	Kitti MackDM68	NA	
UA-blw	ShenandoDM55	NA	
UA-blw	Upper lowDM61	NA	
UA-blw	ChampionDM76	NA	
UA-blw	SF Eureka0207-01	NA	
UA-blw	ProgressiDM42	NA	
UA-blw	Adit adj. F0164-01	NA	
UA-blw	Little CasiDM73	NA	
UA-blw	Adit W. &0079-01	NA	
UA-blw	Adit 1/8mi0024-01	NA	
UA-blw	Upper Mir0025-02	NA	
UA-blw	Little MauDM41	NA	
UA-blw	Adit 3/4 m0025-01	NA	

Reduction per technology:

Bulkhead = 50%

Passive Treatment = 30%

Active = 85%

Phase 1	Phase 2	%Reductions		Load Removed in #'s/day		
costs	Costs	Phase 1	Phase 2	Phase 1	CumulativePhase 2	
per site	per site			phase 1		
60	300	50	50	131.84	131.84	131.84
60	1000	0	50	0.00	131.84	122.78
300	300	50	50	27.81	159.65	27.81
300		50	50	15.83	175.48	15.83
300	300	30	50	6.98	182.45	11.63
60	300	30	50	4.77	187.22	7.94
60	300	30	50	4.46	191.68	7.44
		0	0	0.00	191.68	0.00
60	1000	30	50	2.90	194.58	4.83
300	300	30	50	2.44	197.02	4.06
300	10	30	50	2.34	199.35	3.90
60	300	50	50	3.61	202.96	3.61
		50	50	2.88	205.84	2.88
300	1000	50	50	2.88	208.72	2.88
1000	300	80	50	4.18	212.90	2.61
		50	50	2.45	215.35	2.45
		0	0	0.00	215.35	0.00
		85	85	3.87	219.22	3.87
300		50	50	2.16	221.38	2.16
300	300	30	50	1.22	222.60	2.03
1000	0	50	50	1.67	224.27	1.67
		0	50	0.00	224.27	1.64
300	1000	50	30	1.48	225.75	0.89
		30	30	0.72	226.47	0.72
300	1000	50	90	1.20	227.67	2.16
10	300	30	50	0.72	228.39	1.20
		0	50	0.00	228.39	1.04
300	300	30	50	0.62	229.01	1.04
60	1000	30	50	0.60	229.61	0.99
300	300	50	50	0.98	230.59	0.98
		0	0	0.00	230.59	0.00
60		50	50	0.81	231.40	0.81
10	300	0	50	0.00	231.40	0.69
		0	0	0.00	231.40	0.00

300	300	50	30	0.63	232.03	0.38
300		50	50	0.60	232.63	0.60
300	300	30	50	0.30	232.93	0.50
60	300	30	50	0.30	233.23	0.50
60		50	50	0.31	233.54	0.31
0	300	30	85	0.16	233.69	0.45
		30	50	0.13	233.83	0.22
300	10	30	30	0.11	233.94	0.11
		0	0	0.00	233.94	0.00
		0	0	0.00	233.94	0.00
300	300	50	50	0.12	234.06	0.12
		0	0	0.00	234.06	0.00
60		30	0	0.06	234.13	0.00
		0	0	0.00	234.13	0.00
300	300	30	50	0.06	234.19	0.10
		0	0	0.00	234.19	0.00
		50	50	0.06	234.24	0.06
60	300	50	80	0.05	234.30	0.08
		30	30	0.03	234.33	0.03
		0	0	0.00	234.33	0.00
		30	50	0.02	234.35	0.04
60	1000	0	50	0.00	234.35	0.03
		50	50	0.03	234.38	0.03
		50	50	0.03	234.41	0.03
10	300	0	50	0.00	234.41	0.03
		0	0	0.00	234.41	0.00
		0		0.00	234.41	0.00
		0	0	0.00	234.41	0.00
10	300	0	50	0.00	234.41	0.01
		0		0.00	234.41	0.00
		50	50	0.01	234.42	0.01
		0		0.00	234.42	0.00
0		0		0.00	234.42	0.00
		0	0	0.00	234.42	0.00
		0	0	0.00	234.42	0.00
		50	0	0.01	234.43	0.00
300	300	50	80	0.01	234.43	0.01
0		0	0	0.00	234.43	0.00
0		0	0	0.00	234.43	0.00
60	300	50	50	0.01	234.44	0.01
		0	0	0.00	234.44	0.00
		50	50	0.00	234.44	0.00
0		0		0.00	234.44	0.00
		0	50	0.00	234.44	0.00
		0	0	0.00	234.44	0.00
		0		0.00	234.44	0.00
300	1000	50	85	0.00	234.44	0.00
		0		0.00	234.44	0.00
		0	0	0.00	234.44	0.00

[illegible]

		0.00	234.45	0.00
		0.00	234.45	0.00
		0.00	234.45	0.00
	0	?	0.00	234.45
	0	50		
	30	30		
	0	50		
	30	50		
	0	0		
	0	0		
	30	50		
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	0	0		
	0	0		
	0	0		
	50	85		
	0	0		
	0	0		
	0	0		
	0	0		
	0			
	0	0		
	0	0		
	0	0		
	0	0		
	0	0		
	30	30		
	0			
	0			
	0			
	0			

CUMULATIVE ADIT LOADING, REDUCTIONS AND COSTS - ZINC

(0 values = below detection limit)

2/21/2001

		Low Flow Loading				Reduction Costs			
				Percent		Cum.Costs	Cum. Cost		
				of Total	Cumulative	phase 1	phase 1+2		
ARSG Designation		Zn value	Zn value	Adit	Loading	Cumulativereductions	reductions		
Basin	NEW DES	Site #	(grams/d)	(lbs/d)	Loading (lbs/d)	percentage	x \$1000	x \$1000	
MC	Kohler ad	M02K	35305.2	77.8	58.1%	77.8	58.1%	\$60	\$360
CC	Red & Bonita			61.9					
CC	Gold King			60.3					
CC	American tunnel			26.4					
CC	Mogul			21.1					
MC	Bandora IM	M24	1823.0	4.0	3.0%	81.9	61.1%	\$120	\$1,420
UA abv Eu	Columbus	DM20	1818.0	4.0	3.0%	85.9	64.1%	\$420	\$2,020
CC	Silver Led	CC14	1483.7	3.3	2.4%	89.1	66.5%	\$720	\$2,620
CC	Mogul	CC02D	1439.6	3.2	2.4%	92.3	68.9%	\$1,720	\$3,920
MC	North Stair	M31	1434.6	3.2	2.4%	95.5	71.2%	\$2,020	\$5,220
UA abv Eu	Vermillion	DM17	1302.8	2.9	2.1%	98.3	73.4%	\$2,320	\$5,520
UA abv Eu	Bagley Tunnel	A12	1196.4	2.6	2.0%	101.0	75.3%	\$2,620	\$6,120
UA-blw	Pride of the	A50	1118.9	2.5	1.8%	103.4	77.2%	\$2,680	\$6,480
MC	Paradise	M16	943.0	2.1	1.6%	105.5	78.7%	\$2,740	\$7,540
MC	Brooklyn	M12C	938.3	2.1	1.5%	107.6	80.3%	\$3,040	\$8,140
UA abv Eu	Senator	DM24	750.6	1.7	1.2%	109.2	81.5%	\$3,340	\$8,740
UA abv Eu	N side of	10219-01	694.3	1.5	1.1%	110.8	82.7%	\$3,400	\$9,100
CC	Anglo-Saxon	CC37	659.1	1.5	1.1%	112.2	83.7%	\$3,460	\$9,460
MC	Upper Bonanza	M21F	652.9	1.4	1.1%	113.7	84.8%	\$3,760	\$10,760
UA-blw	Aspen	A63a	610.4	1.3	1.0%	115.0	85.8%	\$3,820	\$11,820
MC	Ferrocrite	M13D	483.3	1.1	0.8%	116.1	86.6%	\$4,120	\$12,120
CC	Porcupine	CC38B	466.1	1.0	0.8%	117.1	87.4%	\$4,180	\$13,180
CC	Grand Monarch	CC01C	459.3	1.0	0.8%	118.1	88.1%	\$4,240	\$14,240
CC	Lewis prospect	CC01P	436.4	1.0	0.7%	119.1	88.9%	\$4,300	\$14,300
UA abv Eu	Silver Win	A29	419.6	0.9	0.7%	120.0	89.5%	\$4,300	\$14,600
UA abv Eu	Lower Coal	A21A	416.4	0.9	0.7%	120.9	90.2%	\$4,310	\$14,910
MC	Lower Bonanza	M21D	350.1	0.8	0.6%	121.7	90.8%	\$4,610	\$15,510
UA abv Eu	Vermillion	A16	343.3	0.8	0.6%	122.5	91.4%	\$4,610	\$15,510
CC	Yukon Mirror	CC43C	291.8	0.6	0.5%	123.1	91.9%	\$4,670	\$15,870
CC	Black Hawk	CC13C	285.1	0.6	0.5%	123.7	92.3%	\$4,680	\$16,180
CC	Queen Anne	CC01A	280.8	0.6	0.5%	124.3	92.8%	\$4,690	\$16,490
UA-blw	Old Hundred	A49	242.3	0.5	0.4%	124.9	93.2%	\$4,690	\$16,490
UA abv Eu	Lucky Jack	A02B	228.5	0.5	0.4%	125.4	93.6%	\$4,750	\$16,850
MC	Bonner Mine	M21B	223.4	0.5	0.4%	125.9	93.9%	\$5,050	\$17,450
MC	Adit 104-VM	27D	223.1	0.5	0.4%	126.4	94.3%	\$5,050	\$17,450
MC	Ruby Trust	M17B	190.2	0.4	0.3%	126.8	94.6%	\$5,350	\$17,750
CC	Elk tunnel	CC32	190.0	0.4	0.3%	127.2	94.9%	\$5,650	\$18,060
UA abv Eu	Sound De	DM26	184.4	0.4	0.3%	127.6	95.2%	\$5,710	\$18,420

CC	Mammoth	CC29B	178.0	0.4	0.3%	128.0	95.5%	\$5,770	\$18,780
UA-blw	Little Nati	DM56	171.8	0.4	0.3%	128.4	95.8%	\$6,070	\$19,380
UA-blw	Royal Tig	DM63	168.1	0.4	0.3%	128.8	96.1%	\$6,370	\$19,980
UA abv Eu	Tom Moor	DM22	154.8	0.3	0.3%	129.1	96.3%	\$6,370	\$19,980
CC	Monarch ICC	38C	149.2	0.3	0.2%	129.4	96.6%	\$6,380	\$20,290
MC	Lower Bo	M21	149.1	0.3	0.2%	129.8	96.8%	\$6,380	\$20,290
MC	Junction I	M02B	146.7	0.3	0.2%	130.1	97.1%	\$6,680	\$21,590
UA abv Eu	London MA	07LM	129.4	0.3	0.2%	130.4	97.3%	\$6,680	\$21,590
UA-blw	Pittsburg	A71	122.8	0.3	0.2%	130.6	97.5%	\$6,680	\$21,590
CC	Unnamed adit between Mog	94.9	121.9	0.2	0.2%	130.8	97.6%	\$6,740	\$21,650
UA-blw	Auburn	DM36	88.5	0.2	0.1%	131.0	97.8%	\$6,800	\$21,710
CC	Evelyn Mi	CC21C	85.3	0.2	0.1%	131.2	97.9%	\$7,800	\$22,710
UA-blw	Hamlet	DM39	81.7	0.2	0.1%	131.4	98.1%	\$8,100	\$23,020
CC	Joe & Joh	CC25C	80.5	0.2	0.1%	131.6	98.2%	\$8,400	\$23,620
UA abv Eu	Mountain A	19a	79.0	0.2	0.1%	131.8	98.3%	\$8,700	\$24,220
MC	Little Dor	M37	77.0	0.2	0.1%	131.9	98.4%	\$9,000	\$25,520
MC	Anvil Mtn.	M33B	71.2	0.2	0.1%	132.1	98.6%		
UA-blw	Mighty Mc	A69	63.2	0.1	0.1%	132.2	98.7%		
UA abv Eu	Little Chie	DM3	58.2	0.1	0.1%	132.4	98.8%		
UA-blw	Moonbear	DM35	58.2	0.1	0.1%	132.5	98.9%		
CC	Big Color	CC16C	56.1	0.1	0.1%	132.6	98.9%		
UA-blw	Forest Qu	A41	52.0	0.1	0.1%	132.7	99.0%		
UA abv Eu	Burrows I	A17b	50.9	0.1	0.1%	132.8	99.1%		
MC	Imogene I	M13B	50.2	0.1	0.1%	132.9	99.2%		
CC	Occidenta	CC13D	42.7	0.1	0.1%	133.0	99.3%		
CC	Adit below	CC02G	38.5	0.1	0.1%	133.1	99.3%		
UA-blw	South low	DM79	36.5	0.1	0.1%	133.2	99.4%		
UA abv Eu	Treasure I	A26B	28.6	0.1	0.0%	133.3	99.4%		
UA abv Eu	Burrows I	A17a	28.0	0.1	0.0%	133.3	99.5%		
UA abv Eu	Golden Fl	DM27	24.6	0.1	0.0%	133.4	99.5%		
MC	INDEPEN	I21H	22.6	0.0	0.0%	133.4	99.6%		
MC	Upper Br	M12F	20.6	0.0	0.0%	133.5	99.6%		
MC	Boston	M36	18.8	0.0	0.0%	133.5	99.6%		
UA-blw	Green Mtr	DM52	18.5	0.0	0.0%	133.6	99.7%		
MC	COLLAP	SM22B	15.9	0.0	0.0%	133.6	99.7%		
MC	Silver Cro	M09	14.7	0.0	0.0%	133.6	99.7%		
UA abv Eu	Silver Que	DM25	14.4	0.0	0.0%	133.7	99.7%		
UA-blw	Ben Frank	DM32	13.8	0.0	0.0%	133.7	99.8%		
UA-blw	Bradley tu	DM54	12.6	0.0	0.0%	133.7	99.8%		
UA-blw	Unknown	DM37	12.5	0.0	0.0%	133.7	99.8%		
UA-blw	Last Chan	DM66	12.2	0.0	0.0%	133.8	99.8%		
UA-blw	Unknown	DM38	9.2	0.0	0.0%	133.8	99.8%		
UA-blw	Innis Tun	DM53	8.3	0.0	0.0%	133.8	99.8%		
UA-blw	Hidden Tr	DM44	7.9	0.0	0.0%	133.8	99.9%		
CC	Mine 1/2 n	CC10B	7.7	0.0	0.0%	133.8	99.9%		
CC	Adit below	CC30J	7.7	0.0	0.0%	133.9	99.9%		
UA abv Eu	Little Ida	DM14	7.6	0.0	0.0%	133.9	99.9%		
UA-blw	Bavarian	DM33	5.6	0.0	0.0%	133.9	99.9%		
UA-blw	Little Casi	DM73	4.4	0.0	0.0%	133.9	99.9%		

UA abv Eu	London MA07LMS	4.4	0.0	0.0%	133.9	99.9%
UA-blw	Silver StaDM43	3.8	0.0	0.0%	133.9	99.9%
UA-blw	Oyama tuDM49	3.7	0.0	0.0%	133.9	99.9%
UA abv Eu	Unknown DM1	3.6	0.0	0.0%	133.9	99.9%
UA-blw	Argentine DM78	3.4	0.0	0.0%	133.9	99.9%
MC	U.S.Basin M07C	2.8	0.0	0.0%	133.9	99.9%
UA abv Eu	Prospect IDM31	2.6	0.0	0.0%	134.0	100.0%
UA-blw	Emma MirDM47	2.6	0.0	0.0%	134.0	100.0%
UA-blw	Joseph NDM75	2.5	0.0	0.0%	134.0	100.0%
UA abv Eu	Prairie DM8	2.3	0.0	0.0%	134.0	100.0%
UA abv Eu	Indian ChiDM28	2.2	0.0	0.0%	134.0	100.0%
UA-blw	Iowa DM62	2.1	0.0	0.0%	134.0	100.0%
UA-blw	Black PriDM60	2.1	0.0	0.0%	134.0	100.0%
UA-blw	Valley ForDM57	1.9	0.0	0.0%	134.0	100.0%
UA-blw	Marcelle M0191-01	1.7	0.0	0.0%	134.0	100.0%
UA-blw	Ezra DM58	1.7	0.0	0.0%	134.0	100.0%
UA abv Eu	Early BirdDM4	1.7	0.0	0.0%	134.0	100.0%
UA-blw	Midway TDM74	1.5	0.0	0.0%	134.0	100.0%
CC	River righ ?	1.2	0.0	0.0%	134.0	100.0%
UA-blw	Queen of DM71	1.0	0.0	0.0%	134.0	100.0%
UA abv Eu	Unknown DM30	0.9	0.0	0.0%	134.0	100.0%
UA-blw	Smuggler DM46	0.8	0.0	0.0%	134.0	100.0%
UA-blw	EsmeraldaDM40	0.8	0.0	0.0%	134.0	100.0%
UA-blw	Jess MineDM77	0.7	0.0	0.0%	134.0	100.0%
UA-blw	King SoloDM59	0.4	0.0	0.0%	134.0	100.0%
CC	*Adit aboCC15B	0.4	0.0	0.0%	134.0	100.0%
UA-blw	Unknown DM72	0.3	0.0	0.0%	134.0	100.0%
UA-blw	Midway MDM34	0.2	0.0	0.0%	134.0	100.0%
UA-blw	Upper Ma0099-01	0.2	0.0	0.0%	134.0	100.0%
UA-blw	S side Eu0264-01	0.2	0.0	0.0%	134.0	100.0%
UA-blw	adit near tDM50	0.1	0.0	0.0%	134.0	100.0%
UA-blw	above Bu0200-01	0.1	0.0	0.0%	134.0	100.0%
UA abv Eu	Toltec MirDM29	0.1	0.0	0.0%	134.0	100.0%
UA-blw	0321-01	0.1	0.0	0.0%	134.0	100.0%
UA abv Eu	Riverside DM9	0.1	0.0	0.0%	134.0	100.0%
UA-blw	Upper Ma0098-01	0.0	0.0	0.0%	134.0	100.0%
UA abv Eu	London MDM5	0.0	0.0	0.0%	134.0	100.0%
		0.1	0.0	0.0%	134.0	100.0%
CC	Red & BoiCC03C	0.0	0.0	0.0%	134.0	100.0%
CC	Henrietta CC24G	0.0	0.0	0.0%	134.0	100.0%
CC	Lark MineCC24D	0.0	0.0	0.0%	134.0	100.0%
CC	Mine SoutCC02E	0.0	0.0	0.0%	134.0	100.0%
CC	Kansas CiCC30D	0.0	0.0	0.0%	134.0	100.0%
CC	Kansas CiCC30E	0.0	0.0	0.0%	134.0	100.0%
MC	Adit 103-MM27F	0.0	0.0	0.0%	134.0	100.0%
UA abv Eu	Upper CoiA21D	0.0	0.0	0.0%	134.0	100.0%
UA abv Eu	Gold PrinA23a	0.0	0.0	0.0%	134.0	100.0%
UA-blw	Blair Mtn. DM65	0.0	0.0	0.0%	134.0	100.0%
UA-blw	Ridgeway 0199-01	0.0	0.0	0.0%	134.0	100.0%

Total	60790.4	134.0	100.0%
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CC	Small dun?	0.0	
CC	HandcockCC47B	NA	
CC	AvalancheCC30K	NA	
CC	Georgia GCC30L	NA	
MC	Adit S. ChM10B	NA	
MC	Paradise /M16D	NA	
MC	Adit 104-VM27D	NA	
MC	Bullion King	NA	
MC	Burbank FM26B	NA	
MC	Paradise /M16B	NA	
MC	Ensle TunM26C	NA	
MC	1st SW MIM18B	NA	
MC	Adit E.of IM27DE	NA	
MC	Paradise /M16C	NA	
MC	U.S. BasirM07D	NA	
MC	Brooklyn WBG10	NA	
MC	ChatanooM11B	NA	
MC	Colaps adM27E	NA	
MC	Adit 103-VM27F	NA	
MC	Lower S.PM23B	NA	
UA abv Eu	Toltec Vei0212-01	NA	
UA abv Eu	Little Ida IDM-11	NA	
UA abv Eu	Little Ida IDM-13	NA	
UA abv Eu	N.of Cinn.0184-01	NA	
UA abv Eu	Middle To0218-01	NA	
UA abv Eu	Burrows c0088-01	NA	
UA abv Eu	N.of Cinn.0184-02	NA	
UA abv Eu	Adit oppo0169-01	NA	
UA-blw	Lower RaiDM69	NA	
UA-blw	Kitti MackDM68	NA	
UA-blw	ShenandoDM55	NA	
UA-blw	Upper lowDM61	NA	
UA-blw	ChampionDM76	NA	
UA-blw	SF Eureka0207-01	NA	
UA-blw	ProgressiDM42	NA	
UA-blw	Adit adj. F0164-01	NA	
UA-blw	Little CasiDM73	NA	
UA-blw	Adit W. &0079-01	NA	
UA-blw	Adit 1/8mi0024-01	NA	
UA-blw	Upper Mir0025-02	NA	
UA-blw	Little MauDM41	NA	
UA-blw	Adit 3/4 m0025-01	NA	

Reduction per technology:

Bulkhead = 50%

Passive Treatment = 30%

Active = 85%

Phase 1 costs per site	Phase 2 Costs per site	%Reductions		Load Removed in #'s/day			Cost per pound phase 1	Cost per pound phase 1+2
		Phase 1	Phase 2	Phase 1	Cumulative phase 1	Phase 2		
60	300	50	50	38.92	38.92	38.92	\$1.54	\$9.25
60	1000	30	50	1.21	40.13	2.01	\$2.99	\$35.39
300	300	50	30	2.00	42.13	1.20	\$9.97	\$47.94
300	300	50	50	1.64	43.77	1.64	\$16.45	\$59.86
1000	300	80	50	2.54	46.31	1.59	\$37.14	\$84.65
300	1000	50	50	1.58	47.89	1.58	\$42.18	\$109.00
300		50	50	1.44	49.33	1.44	\$47.03	\$111.91
300	300	30	50	0.79	50.12	1.32	\$52.28	\$122.11
60	300	30	50	0.74	50.86	1.23	\$52.69	\$127.41
60	1000	0	50	0.00	50.86	1.04	\$53.87	\$148.25
300	300	30	50	0.62	51.48	1.03	\$59.05	\$158.12
300	300	30	50	0.50	51.98	0.83	\$64.26	\$168.15
60	300	30	50	0.46	52.44	0.77	\$64.84	\$173.55
60	300	30	50	0.44	52.87	0.73	\$65.44	\$178.92
300	1000	50	90	0.72	53.59	1.30	\$70.16	\$200.78
60	1000	30	85	0.40	54.00	1.14	\$70.75	\$218.91
300		50	50	0.53	54.53	0.53	\$75.56	\$222.27
60	1000	30	50	0.31	54.84	0.51	\$76.23	\$240.35
60	1000	0	50	0.00	54.84	0.51	\$77.32	\$259.68
60		50	50	0.48	55.32	0.48	\$77.73	\$258.51
0	300	30	85	0.28	55.60	0.79	\$77.34	\$262.61
10	300	0	50	0.00	55.60	0.46	\$77.52	\$268.19
300	300	30	50	0.23	55.83	0.39	\$82.58	\$277.82
0		0	50	0.00	55.83	0.00	\$82.58	\$277.82
60	300	50	50	0.32	56.15	0.32	\$83.17	\$282.64
10	300	0	50	0.00	56.15	0.31	\$83.35	\$288.16
10	300	0	50	0.00	56.15	0.31	\$83.53	\$293.69
0		0	0	0.00	56.15	0.00	\$83.53	\$293.69
60	300	50	80	0.25	56.40	0.40	\$84.22	\$298.76
300	300	50	50	0.25	56.65	0.25	\$89.15	\$308.05
		0	0	0.00	56.65	0.00	\$89.15	\$308.05
300		50	50	0.21	56.86	0.21	\$94.10	\$312.19
300	10	30	50	0.13	56.98	0.21	\$99.15	\$316.94
60	300	50	50	0.20	57.19	0.20	\$99.85	\$322.11

60	300	30	50	0.12	57.30	0.20	\$100.69	\$327.73
300	300	30	50	0.11	57.42	0.19	\$105.72	\$337.53
300	300	50	80	0.19	57.60	0.30	\$110.59	\$346.86
0		0		0.00	57.60	0.00	\$110.59	\$346.86
10	300	30	50	0.10	57.70	0.16	\$110.57	\$351.64
		0	0	0.00	57.70	0.00	\$110.57	\$351.64
300	1000	50	30	0.16	57.86	0.10	\$115.45	\$373.13
0		0	0	0.00	57.86	0.00	\$115.45	\$373.13
0		0		0.00	57.86	0.00	\$115.45	\$373.13
60		50	50	0.10	57.97	0.10	\$116.27	\$373.49
60		30	0	0.06	58.03	0.00	\$117.19	\$374.14
1000	0	50	50	0.09	58.12	0.09	\$134.21	\$390.74
300	10	30	30	0.05	58.17	0.05	\$139.24	\$395.71
300	300	30	50	0.05	58.23	0.09	\$144.26	\$405.65
300	300	50	50	0.09	58.31	0.09	\$149.19	\$415.34
300	1000	50	85	0.08	58.40	0.14	\$154.11	\$436.99
		0	0	0.00	58.40	0.00	\$0.00	\$0.00
		0	0	0.00	58.40	0.00	\$0.00	\$0.00
		50	50	0.06	58.46	0.06	\$0.00	\$0.00
		50	50	0.06	58.53	0.06	\$0.00	\$0.00
		50	50	0.06	58.59	0.06	\$0.00	\$0.00
		85	85	0.10	58.69	0.10	\$0.00	\$0.00
		0	0	0.00	58.69	0.00	\$0.00	\$0.00
		50	50	0.06	58.74	0.06	\$0.00	\$0.00
		0	50	0.00	58.74	0.05	\$0.00	\$0.00
		0		0.00	58.74	0.00	\$0.00	\$0.00
		50	50	0.04	58.78	0.04	\$0.00	\$0.00
		0	50	0.00	58.78	0.03	\$0.00	\$0.00
		0	0	0.00	58.78	0.00	\$0.00	\$0.00
		50	50	0.03	58.81	0.03	\$0.00	\$0.00
		50	50	0.02	58.83	0.02	\$0.00	\$0.00
		30	50	0.01	58.85	0.02	\$0.00	\$0.00
		0		0.00	58.85	0.00	\$0.00	\$0.00
		30	30	0.01	58.86	0.01	\$0.00	\$0.00
		0	0	0.00	58.86	0.00	\$0.00	\$0.00
		0	0	0.00	58.86	0.00	\$0.00	\$0.00
		50	50	0.02	58.88	0.02	\$0.00	\$0.00
		50	50	0.02	58.89	0.02	\$0.00	\$0.00
		30	50	0.01	58.90	0.01	\$0.00	\$0.00
		30	30	0.01	58.91	0.01	\$0.00	\$0.00
		0	0	0.00	58.91	0.00	\$0.00	\$0.00
		30	30	0.01	58.91	0.01	\$0.00	\$0.00
		0	0	0.00	58.91	0.00	\$0.00	\$0.00
		0	0	0.00	58.91	0.00	\$0.00	\$0.00
		0	50	0.00	58.91	0.01	\$0.00	\$0.00
		0	50	0.00	58.91	0.01	\$0.00	\$0.00
		0	0	0.00	58.91	0.00	\$0.00	\$0.00
		50	0	0.01	58.92	0.00	\$0.00	\$0.00
		30		0.00	58.92	0.00	\$0.00	\$0.00

[illegible]

		0.00	58.93	0.00
		0.00	58.93	0.00
		0.00	58.93	0.00
	0	?	0.00	58.93
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CUMULATIVE ADIT LOADING, REDUCTIONS AND COSTS - COPPER

(0 values = below detection limit)

2/21/2001

			Low Flow Loading				Reduction		Cos
Basin	ARSG Designation	NEW DES Site #	Cu value (grams/d)	Cu value (lbs/d)	Percent	Cumulative	Cum.Costs	Cum. Cost	
					of Total	Loading	phase 1	phase 1+2	
					Adit Loading	Loading (lbs/d)	Cumulative reductions percentage	x \$1000	x \$1000
MC	Kohler ad	M02K	12817.4	28.3	90.3%	28.3	90.3%	\$60	\$360
CC	Gold King			10.3					
CC	Mogul	CC02D	315.6	0.7	2.2%	29.0	92.6%	\$1,060	\$1,660
CC	Lewis pro	CC01P	168.3	0.4	1.2%	29.3	93.8%	\$1,120	\$1,720
UA abv Eu	Silver Win	A29	140.1	0.3	1.0%	29.6	94.7%	\$1,120	\$2,020
MC	North Star	M31	110.0	0.2	0.8%	29.9	95.5%	\$1,420	\$3,320
MC	Brooklyn	M12C	87.0	0.2	0.6%	30.1	96.1%	\$1,720	\$3,920
CC	Grand Mo	CC01C	81.6	0.2	0.6%	30.2	96.7%	\$1,780	\$4,980
UA abv Eu	Columbus	DM20	56.5	0.1	0.4%	30.4	97.1%	\$2,080	\$5,580
UA abv Eu	Vermillion	DM17	34.8	0.1	0.2%	30.4	97.3%	\$2,380	\$5,880
CC	Monarch	ICC38C	34.3	0.1	0.2%	30.5	97.6%	\$2,390	\$6,190
MC	Anvil Mtn.	M33B	29.6	0.1	0.2%	30.6	97.8%	\$2,390	\$6,190
UA abv Eu	Mountain	A19a	27.7	0.1	0.2%	30.7	98.0%	\$2,690	\$6,790
UA-blw	Royal Tiger	DM63	23.9	0.1	0.2%	30.7	98.2%	\$2,990	\$7,390
MC	Paradise	M16	23.4	0.1	0.2%	30.8	98.3%	\$3,050	\$8,450
MC	Junction	IM02B	23.2	0.1	0.2%	30.8	98.5%	\$3,350	\$9,750
UA abv Eu	Lower Co	A21A	22.2	0.0	0.2%	30.9	98.6%	\$3,360	\$10,060
CC	Silver Led	CC14	21.1	0.0	0.1%	30.9	98.8%	\$3,660	\$10,660
MC	Lower Bo	M21D	12.8	0.0	0.1%	30.9	98.9%	\$3,960	\$11,260
MC	Ruby Trust	M17B	12.5	0.0	0.1%	31.0	99.0%	\$4,260	\$11,560
UA abv Eu	N side of	(0219-01	12.3	0.0	0.1%	31.0	99.1%	\$4,320	\$11,920
CC	Queen An	CC01A	11.1	0.0	0.1%	31.0	99.1%	\$4,330	\$12,230
MC	Bonner M	M21B	10.6	0.0	0.1%	31.0	99.2%	\$4,630	\$12,830
UA-blw	Old Hund	A49	10.6	0.0	0.1%	31.1	99.3%	\$4,630	\$12,830
MC	Upper Bo	M21F	9.1	0.0	0.1%	31.1	99.4%	\$4,930	\$14,130
MC	Bandora	IM24	9.0	0.0	0.1%	31.1	99.4%	\$4,990	\$15,190
UA-blw	Pride of th	A50	8.8	0.0	0.1%	31.1	99.5%	\$5,050	\$15,550
MC	Lower Bo	M21	7.1	0.0	0.1%	31.1	99.5%	\$5,050	\$15,550
UA abv Eu	Sound De	DM26	5.6	0.0	0.0%	31.1	99.6%	\$5,110	\$15,910
CC	Evelyn Mi	CC21C	5.5	0.0	0.0%	31.2	99.6%	\$6,110	\$16,910
UA-blw	Aspen	A63a	5.1	0.0	0.0%	31.2	99.6%	\$6,170	\$17,970
UA abv Eu	Lucky Jac	A02B	4.7	0.0	0.0%	31.2	99.7%	\$6,230	\$18,330
CC	Joe & Joh	CC25C	4.3	0.0	0.0%	31.2	99.7%	\$6,530	\$18,930
UA abv Eu	Silver Que	DM25	4.0	0.0	0.0%	31.2	99.7%	\$6,530	\$18,930
MC	Upper Brc	M12F	3.6	0.0	0.0%	31.2	99.8%	\$6,530	\$18,930
CC	Big Color	CC16C	3.2	0.0	0.0%	31.2	99.8%	\$6,530	\$18,930
UA abv Eu	Senator	DM24	3.2	0.0	0.0%	31.2	99.8%	\$6,830	\$19,530
CC	Anglo-Sa	CC37	3.1	0.0	0.0%	31.2	99.8%	\$6,890	\$19,890

UA abv Eu	Little Chie	DM3	2.2	0.0	0.0%	31.2	99.8%	\$6,890	\$19,890
CC	Mammoth	CC29B	2.1	0.0	0.0%	31.2	99.9%	\$6,950	\$20,250
CC	Unnamed adit between Mogu	CC10	2.0	0.0	0.0%	31.2	99.9%	\$7,010	\$20,310
UA-blw	South low	DM79	2.0	0.0	0.0%	31.2	99.9%	\$7,010	\$20,310
CC	Adit below	CC30J	1.9	0.0	0.0%	31.2	99.9%	\$7,010	\$20,310
MC	Adit 104-VM	DM27D	1.9	0.0	0.0%	31.2	99.9%	\$7,010	\$20,310
CC	River righ ?		1.8	0.0	0.0%	31.3	99.9%	\$7,010	\$20,310
MC	Boston	M36	1.7	0.0	0.0%	31.3	99.9%	\$7,010	\$20,310
UA-blw	Pittsburgh	CC71	1.3	0.0	0.0%	31.3	99.9%	\$7,010	\$20,310
UA-blw	Bavarian	DM33	1.2	0.0	0.0%	31.3	100.0%		
UA-blw	Blair Mtn.	DM65	1.2	0.0	0.0%	31.3	100.0%		
CC	*Adit above	CC15B	1.0	0.0	0.0%	31.3	100.0%		
UA-blw	Bradley tu	DM54	1.0	0.0	0.0%	31.3	100.0%		
UA abv Eu	Golden Fl	DM27	0.8	0.0	0.0%	31.3	100.0%		
CC	Mine 1/2 n	CC10B	0.5	0.0	0.0%	31.3	100.0%		
CC	Adit below	CC02G	0.4	0.0	0.0%	31.3	100.0%		
UA abv Eu	Burrows IA	DM17a	0.3	0.0	0.0%	31.3	100.0%		
UA abv Eu	Little Ida	DM14	0.3	0.0	0.0%	31.3	100.0%		
UA-blw	Unknown	DM38	0.2	0.0	0.0%	31.3	100.0%		
UA abv Eu	Early Bird	DM4	0.2	0.0	0.0%	31.3	100.0%		
UA abv Eu	London MA	DM07LM	0.2	0.0	0.0%	31.3	100.0%	\$0	\$0
UA-blw	Green Mtr	DM52	0.1	0.0	0.0%	31.3	100.0%		
UA abv Eu	Toltec Mir	DM29	0.1	0.0	0.0%	31.3	100.0%		
MC	COLLAPSE	DM22B	0.1	0.0	0.0%	31.3	100.0%		
UA abv Eu	Burrows IA	DM17b	0.1	0.0	0.0%	31.3	100.0%		
UA abv Eu	London MA	DM07LMS	0.1	0.0	0.0%	31.3	100.0%		
UA-blw	King Solo	DM59	0.1	0.0	0.0%	31.3	100.0%		
UA-blw	Iowa	DM62	0.1	0.0	0.0%	31.3	100.0%		
UA abv Eu	Unknown	DM1	0.0	0.0	0.0%	31.3	100.0%		
UA-blw	Upper Ma	DM0099-01	0.0	0.0	0.0%	31.3	100.0%		
UA abv Eu	Prospect I	DM31	0.0	0.0	0.0%	31.3	100.0%		
UA-blw	adit near t	DM50	0.0	0.0	0.0%	31.3	100.0%		
UA-blw		DM0321-01	0.0	0.0	0.0%	31.3	100.0%		
UA-blw	S side Eu	DM0264-01	0.0	0.0	0.0%	31.3	100.0%		
UA abv Eu	Bagley Tu	DM12	0.0	0.0	0.0%	31.3	100.0%	\$300	\$300
MC	Ferrocrete	DM13D	0.0	0.0	0.0%	31.3	100.0%	\$600	\$300
CC	Porcupine	CC38B	0.0	0.0	0.0%	31.3	100.0%	\$660	\$1,300
UA abv Eu	Vermillion	DM16	0.0	0.0	0.0%	31.3	100.0%	\$660	\$1,300
CC	Yukon Mir	CC43C	0.0	0.0	0.0%	31.3	100.0%	\$720	\$1,600
CC	Black Hav	CC13C	0.0	0.0	0.0%	31.3	100.0%	\$730	\$1,900
CC	Elk tunnel	CC32	0.0	0.0	0.0%	31.3	100.0%	\$1,030	\$1,910
UA-blw	Little Nati	DM56	0.0	0.0	0.0%	31.3	100.0%	\$1,330	\$2,210
UA abv Eu	Tom Moor	DM22	0.0	0.0	0.0%	31.3	100.0%	\$1,330	\$2,210
UA-blw	Auburn	DM36	0.0	0.0	0.0%	31.3	100.0%	\$1,390	\$2,210
UA-blw	Hamlet	DM39	0.0	0.0	0.0%	31.3	100.0%	\$1,690	\$2,220
MC	Little Dor	DM37	0.0	0.0	0.0%	31.3	100.0%	\$1,990	\$3,220
UA-blw	Mighty Mc	DM69	0.0	0.0	0.0%	31.3	100.0%		
UA-blw	Moonbear	DM35	0.0	0.0	0.0%	31.3	100.0%		
UA-blw	Forest Qu	DM41	0.0	0.0	0.0%	31.3	100.0%		

MC	Imogene IM13B	0.0	0.0	0.0%	31.3	100.0%
CC	OccidentaCC13D	0.0	0.0	0.0%	31.3	100.0%
UA abv Eu	Treasure IA26B	0.0	0.0	0.0%	31.3	100.0%
MC	INDEPENIM21H	0.0	0.0	0.0%	31.3	100.0%
MC	Silver CroM09	0.0	0.0	0.0%	31.3	100.0%
UA-blw	Ben FrankDM32	0.0	0.0	0.0%	31.3	100.0%
UA-blw	Unknown DM37	0.0	0.0	0.0%	31.3	100.0%
UA-blw	Last ChanDM66	0.0	0.0	0.0%	31.3	100.0%
UA-blw	Innis TunrDM53	0.0	0.0	0.0%	31.3	100.0%
UA-blw	Hidden TrDM44	0.0	0.0	0.0%	31.3	100.0%
UA-blw	Little CasiDM73	0.0	0.0	0.0%	31.3	100.0%
UA-blw	Silver StaDM43	0.0	0.0	0.0%	31.3	100.0%
UA-blw	Oyama tuDM49	0.0	0.0	0.0%	31.3	100.0%
UA-blw	Argentine DM78	0.0	0.0	0.0%	31.3	100.0%
MC	U.S.Basin M07C	0.0	0.0	0.0%	31.3	100.0%
UA-blw	Emma MirDM47	0.0	0.0	0.0%	31.3	100.0%
UA-blw	Joseph NDM75	0.0	0.0	0.0%	31.3	100.0%
UA abv Eu	Prairie DM8	0.0	0.0	0.0%	31.3	100.0%
UA abv Eu	Indian ChiDM28	0.0	0.0	0.0%	31.3	100.0%
UA-blw	Black PrirDM60	0.0	0.0	0.0%	31.3	100.0%
UA-blw	Valley ForDM57	0.0	0.0	0.0%	31.3	100.0%
UA-blw	Marcelle M0191-01	0.0	0.0	0.0%	31.3	100.0%
UA-blw	Ezra DM58	0.0	0.0	0.0%	31.3	100.0%
UA-blw	Midway TDM74	0.0	0.0	0.0%	31.3	100.0%
UA-blw	Queen of DM71	0.0	0.0	0.0%	31.3	100.0%
UA abv Eu	Unknown DM30	0.0	0.0	0.0%	31.3	100.0%
UA-blw	Smuggler DM46	0.0	0.0	0.0%	31.3	100.0%
UA-blw	EsmeraldiDM40	0.0	0.0	0.0%	31.3	100.0%
UA-blw	Jess MineDM77	0.0	0.0	0.0%	31.3	100.0%
UA-blw	Unknown DM72	0.0	0.0	0.0%	31.3	100.0%
UA-blw	Midway MDM34	0.0	0.0	0.0%	31.3	100.0%
UA-blw	above Bu0200-01	0.0	0.0	0.0%	31.3	100.0%
UA abv Eu	Riverside DM9	0.0	0.0	0.0%	31.3	100.0%
UA-blw	Upper Ma0098-01	0.0	0.0	0.0%	31.3	100.0%
UA abv Eu	London MDM5	0.0	0.0	0.0%	31.3	100.0%
CC	Red & BoiCC03C	0.0	0.0	0.0%	31.3	100.0%
CC	Henrietta CC24G	0.0	0.0	0.0%	31.3	100.0%
CC	Lark MineCC24D	0.0	0.0	0.0%	31.3	100.0%
CC	Mine SoutCC02E	0.0	0.0	0.0%	31.3	100.0%
CC	Kansas CiCC30D	0.0	0.0	0.0%	31.3	100.0%
CC	Kansas CiCC30E	0.0	0.0	0.0%	31.3	100.0%
MC	Adit 103-M27F	0.0	0.0	0.0%	31.3	100.0%
UA abv Eu	Upper CoiA21D	0.0	0.0	0.0%	31.3	100.0%
UA abv Eu	Gold PrinA23a	0.0	0.0	0.0%	31.3	100.0%
UA-blw	Ridgeway 0199-01	0.0	0.0	0.0%	31.3	100.0%
Total		14187.5	31.3			

0.0

CC Small dun? NA

CC	Handcock	CC47B	NA
CC	Avalanche	CC30K	NA
CC	Georgia	GCC30L	NA
MC	Adit S. Ch	M10B	NA
MC	Paradise	/M16D	NA
MC	Adit 104-VM	27D	NA
MC	Bullion King		NA
MC	Burbank	FM26B	NA
MC	Paradise	/M16B	NA
MC	Ensle Tun	M26C	NA
MC	1st SW MIM	18B	NA
MC	Adit E.of	EM27DE	NA
MC	Paradise	/M16C	NA
MC	U.S. Basir	M07D	NA
MC	Brooklyn	WBG10	NA
MC	Chatanoo	M11B	NA
MC	Colaps ad	M27E	NA
MC	Adit 103-VM	27F	NA
MC	Lower S.	PM23B	NA
UA abv Eu	Toltec Vei	0212-01	NA
UA abv Eu	Little Ida	IDM-11	NA
UA abv Eu	Little Ida	IDM-13	NA
UA abv Eu	N.of Cinn.	0184-01	NA
UA abv Eu	Middle To	0218-01	NA
UA abv Eu	Burrows	c0088-01	NA
UA abv Eu	N.of Cinn.	0184-02	NA
UA abv Eu	Adit oppo	0169-01	NA
UA-blw	Lower Rai	DM69	NA
UA-blw	Kitti Mack	DM68	NA
UA-blw	Shenandc	DM55	NA
UA-blw	Upper low	DM61	NA
UA-blw	Champion	DM76	NA
UA-blw	SF Eureka	0207-01	NA
UA-blw	Progressi	DM42	NA
UA-blw	Adit adj. F	0164-01	NA
UA-blw	Little Casi	DM73	NA
UA-blw	Adit W. &	0079-01	NA
UA-blw	Adit 1/8mi	0024-01	NA
UA-blw	Upper Mir	0025-02	NA
UA-blw	Little Mau	DM41	NA
UA-blw	Adit 3/4 m	0025-01	

Reduction per technology:

Bulkhead = 50%

Passive Treatment = 30%

Active = 85%

ts

Phase 1	Phase 2	%Reductions		Load Removed in #'s/day		
costs	Costs	Phase 1	Phase 2	Phase 1	Cumulative	Phase 2
per site	per site			phase 1		
60	300	50	50	14.13	14.13	14.13
1000	300	80	50	0.56	14.69	0.35
60		50	50	0.19	14.87	0.19
0	300	30	85	0.09	14.97	0.26
300	1000	50	50	0.12	15.09	0.12
300	300	30	50	0.06	15.14	0.10
60	1000	0	50	0.00	15.14	0.09
300	300	50	30	0.06	15.21	0.04
300		50	50	0.04	15.25	0.04
10	300	30	50	0.02	15.27	0.04
		0	0	0.00	15.27	0.00
300	300	50	50	0.03	15.30	0.03
300	300	50	80	0.03	15.33	0.04
60	1000	0	50	0.00	15.33	0.03
300	1000	50	30	0.03	15.35	0.02
10	300	0	50	0.00	15.35	0.02
300	300	50	50	0.02	15.37	0.02
300	300	30	50	0.01	15.38	0.01
300		50	50	0.01	15.40	0.01
60	300	30	50	0.01	15.40	0.01
10	300	0	50	0.00	15.40	0.01
300	300	50	50	0.01	15.42	0.01
0		0	0	0.00	15.42	0.00
300	1000	50	90	0.01	15.43	0.02
60	1000	30	50	0.01	15.43	0.01
60	300	30	50	0.01	15.44	0.01
		0	0	0.00	15.44	0.00
60	300	50	50	0.01	15.44	0.01
1000	0	50	50	0.01	15.45	0.01
60	1000	30	85	0.00	15.45	0.01
60	300	50	80	0.01	15.46	0.01
300	300	30	50	0.00	15.46	0.00
		50	50	0.00	15.47	0.00
		30	50	0.00	15.47	0.00
		50	50	0.00	15.47	0.00
300	300	30	50	0.00	15.47	0.00
60	300	30	50	0.00	15.48	0.00

[illegible]

[illegible]

CUMULATIVE ADIT LOADING, REDUCTIONS AND COSTS - CADMIUM

(0 values = below detection limit)

2/21/2001

Basin	ARSG Designation NEW DESCISite #	Cd value (grams/d)	Cd value (lbs/d)	Low Flow Loading			Reduction	
				Percent of Total Adit Loading	Cumulative Loading (lbs/d)	Cumulative reductions percentage	Cum. Costs phase 1 x \$1000	Cum. Cost phase 1+2 x \$1000
MC	Kohler adit f M02K	111.6	0.2	50.3%	0.2	50.3%	\$60	\$360
CC	Gold King		0.2					
CC	Red & Bonita		0.1					
CC	Mogul		0.0					
CC	Silver Ledge CC14	12.4	0.0	5.6%	0.3	56.0%	\$360	\$960
CC	Mogul CC02D	7.6	0.0	3.4%	0.3	59.4%	\$1,360	\$2,260
UA abv Eu	Columbus DM20	7.6	0.0	3.4%	0.3	62.8%	\$1,660	\$2,860
MC	North Star a M31	7.4	0.0	3.3%	0.3	66.2%	\$1,960	\$4,160
MC	Bandora Min M24	7.0	0.0	3.2%	0.3	69.4%	\$2,020	\$5,220
UA-blw	Pride of the 'A50	6.1	0.0	2.8%	0.4	72.1%	\$2,080	\$5,580
UA abv Eu	Vermillion MDM17	5.3	0.0	2.4%	0.4	74.5%	\$2,380	\$5,880
UA abv Eu	N side of Cal0219-01	4.0	0.0	1.8%	0.4	76.3%	\$2,440	\$6,240
UA-blw	Aspen A63a	3.7	0.0	1.7%	0.4	78.0%	\$2,500	\$7,300
MC	Brooklyn Mi M12C	3.6	0.0	1.6%	0.4	79.6%	\$2,800	\$7,900
MC	Ferrocete MM13D	3.4	0.0	1.5%	0.4	81.1%	\$3,100	\$8,200
CC	Lewis prope CC01P	2.9	0.0	1.3%	0.4	82.4%	\$3,160	\$8,260
MC	Upper Bonn M21F	2.8	0.0	1.3%	0.4	83.7%	\$3,460	\$9,560
UA abv Eu	Bagley Tunn A12	2.7	0.0	1.2%	0.4	84.9%	\$3,760	\$10,160
CC	Anglo-Saxo CC37	2.7	0.0	1.2%	0.4	86.1%	\$3,820	\$10,520
CC	Grand Mogu CC01C	2.5	0.0	1.1%	0.4	87.3%	\$3,880	\$11,580
UA-blw	Old Hundred A49	2.3	0.0	1.0%	0.4	88.3%	\$3,880	\$11,580
MC	Lower Bonn M21D	1.7	0.0	0.8%	0.4	89.1%	\$4,180	\$12,180
UA abv Eu	Silver Wing A29	1.7	0.0	0.8%	0.4	89.8%	\$4,180	\$12,480
UA abv Eu	Senator DM24	1.6	0.0	0.7%	0.4	90.5%	\$4,480	\$13,080
UA abv Eu	Lower Come A21A	1.3	0.0	0.6%	0.4	91.1%	\$4,490	\$13,390
MC	INDEPEND M21H	1.3	0.0	0.6%	0.4	91.7%		
CC	Unnamed adit between Mogul Mi		0.0	0.6%	0.5	92.3%	\$4,550	\$13,450
CC	Queen Ann CC01A	1.2	0.0	0.6%	0.5	92.8%	\$4,560	\$13,760
MC	Bonner Mine M21B	1.2	0.0	0.5%	0.5	93.3%	\$4,860	\$14,360
MC	Adit 104-W EM27D	1.1	0.0	0.5%	0.5	93.8%	\$4,860	\$14,360
UA abv Eu	Vermillion Ti A16	1.0	0.0	0.4%	0.5	94.2%	\$4,860	\$14,360
UA abv Eu	Lucky Jack A02B	0.9	0.0	0.4%	0.5	94.7%	\$4,920	\$14,720
CC	Black Hawk CC13C	0.9	0.0	0.4%	0.5	95.1%	\$4,930	\$15,030
UA abv Eu	London Min A07LM	0.9	0.0	0.4%	0.5	95.5%	\$4,930	\$15,030
CC	Monarch Mir CC38C	0.8	0.0	0.4%	0.5	95.8%	\$4,940	\$15,340
MC	Lower Bonn M21	0.8	0.0	0.4%	0.5	96.2%	\$4,940	\$15,340
UA abv Eu	Mountain Q A19a	0.8	0.0	0.3%	0.5	96.5%	\$5,240	\$15,940
MC	Junction Mir M02B	0.7	0.0	0.3%	0.5	96.9%	\$5,540	\$17,240

UA-blw	Royal Tiger	DM63	0.6	0.0	0.3%	0.5	97.1%	\$5,840	\$17,840
CC	Porcupine A	CC38B	0.5	0.0	0.2%	0.5	97.4%	\$5,900	\$18,900
UA-blw	Forest Queen	A41	0.5	0.0	0.2%	0.5	97.6%		
CC	Evelyn Mine	CC21C	0.5	0.0	0.2%	0.5	97.8%	\$1,000	\$1,000
UA abv Eu	Sound Demc	DM26	0.4	0.0	0.2%	0.5	98.0%	\$1,060	\$1,360
CC	Joe & Johns	CC25C	0.4	0.0	0.2%	0.5	98.2%	\$1,360	\$1,960
UA-blw	Mighty Mon	A69	0.4	0.0	0.2%	0.5	98.3%		
UA-blw	Little Nation	DM56	0.3	0.0	0.2%	0.5	98.5%	\$300	\$600
CC	Big Colorad	CC16C	0.3	0.0	0.1%	0.5	98.6%		
UA abv Eu	Little Chief	DM3	0.3	0.0	0.1%	0.5	98.8%		
UA-blw	Pittsburg	MA71	0.3	0.0	0.1%	0.5	98.9%	\$0	\$0
CC	Mammoth tu	CC29B	0.2	0.0	0.1%	0.5	99.0%	\$60	\$360
UA abv Eu	Tom Moore	DM22	0.2	0.0	0.1%	0.5	99.1%	\$60	\$360
MC	Upper Brow	M12F	0.2	0.0	0.1%	0.5	99.2%		
CC	Adit below a	CC30J	0.2	0.0	0.1%	0.5	99.3%		
MC	Little Dora	M37	0.2	0.0	0.1%	0.5	99.3%	\$300	\$1,300
UA abv Eu	Golden Flee	DM27	0.2	0.0	0.1%	0.5	99.4%		
UA abv Eu	Burrows Min	A17b	0.1	0.0	0.1%	0.5	99.5%		
UA-blw	South Iowa	DM79	0.1	0.0	0.1%	0.5	99.5%		
MC	Boston	M36	0.1	0.0	0.1%	0.5	99.6%		
UA abv Eu	Burrows Min	A17a	0.1	0.0	0.1%	0.5	99.7%		
UA-blw	Moonbean	DM35	0.1	0.0	0.1%	0.5	99.7%		
UA-blw	Green Mtn.	IDM52	0.1	0.0	0.1%	0.5	99.8%		
UA-blw	Bradley tunn	DM54	0.1	0.0	0.0%	0.5	99.8%		
CC	Adit below	CCC02G	0.1	0.0	0.0%	0.5	99.8%		
MC	COLLAPSE	CM22B	0.1	0.0	0.0%	0.5	99.9%		
UA abv Eu	Silver Queen	DM25	0.0	0.0	0.0%	0.5	99.9%		
UA-blw	Ben Franklin	DM32	0.0	0.0	0.0%	0.5	99.9%		
UA abv Eu	Little Ida	DM14	0.0	0.0	0.0%	0.5	99.9%		
UA abv Eu	Unknown Pr	DM1	0.0	0.0	0.0%	0.5	99.9%		
UA-blw	Hidden Treas	DM44	0.0	0.0	0.0%	0.5	99.9%		
UA abv Eu	London Min	A07LMS	0.0	0.0	0.0%	0.5	100.0%		
UA abv Eu	Prospect Lo	DM31	0.0	0.0	0.0%	0.5	100.0%		
UA-blw	Iowa	DM62	0.0	0.0	0.0%	0.5	100.0%		
UA abv Eu	Early Bird	DM4	0.0	0.0	0.0%	0.5	100.0%		
UA-blw	Bavarian	DM33	0.0	0.0	0.0%	0.5	100.0%		
UA-blw	Queen of Ma	DM71	0.0	0.0	0.0%	0.5	100.0%		
UA abv Eu	Prairie	DM8	0.0	0.0	0.0%	0.5	100.0%		
UA abv Eu	Indian Chief	DM28	0.0	0.0	0.0%	0.5	100.0%		
UA-blw	Little Casino	DM73	0.0	0.0	0.0%	0.5	100.0%		
CC	*Adit above	ICC15B	0.0	0.0	0.0%	0.5	100.0%		
UA-blw	King Solom	DM59	0.0	0.0	0.0%	0.5	100.0%		
UA-blw	S side Eureka	0264-01	0.0	0.0	0.0%	0.5	100.0%		
MC	Paradise Ad	M16	0.0	0.0	0.0%	0.5	100.0%	\$60	\$1,060
CC	Yukon Mine	CC43C	0.0	0.0	0.0%	0.5	100.0%	\$120	\$1,420
MC	Ruby Trust	aM17B	0.0	0.0	0.0%	0.5	100.0%	\$420	\$1,720
CC	Elk tunnel	CC32	0.0	0.0	0.0%	0.5	100.0%	\$720	\$2,030
UA-blw	Auburn	DM36	0.0	0.0	0.0%	0.5	100.0%	\$780	\$2,090
UA-blw	Hamlet	DM39	0.0	0.0	0.0%	0.5	100.0%	\$1,080	\$2,400

MC	Anvil Mtn.adM33B	0.0	0.0	0.0%	0.5	100.0%
MC	Imogene MirM13B	0.0	0.0	0.0%	0.5	100.0%
CC	Occidental CC13D	0.0	0.0	0.0%	0.5	100.0%
UA abv Eu	Treasure MoA26B	0.0	0.0	0.0%	0.5	100.0%
MC	Silver CrowrM09	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Unknown DrDM37	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Last ChanceDM66	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Unknown DrDM38	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Innis TunnelDM53	0.0	0.0	0.0%	0.5	100.0%
CC	Mine 1/2 milCC10B	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Silver Star DM43	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Oyama tunnDM49	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Argentine tuDM78	0.0	0.0	0.0%	0.5	100.0%
MC	U.S.Basin #2M07C	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Emma Mine DM47	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Joseph Neff DM75	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Black PrinceDM60	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Valley ForgeDM57	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Marcelle Min0191-01	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Ezra DM58	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Midway TunDM74	0.0	0.0	0.0%	0.5	100.0%
CC	River right a ?	0.0	0.0	0.0%	0.5	100.0%
UA abv Eu	Unknown MiDM30	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Smuggler DM46	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Esmeralda NDM40	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Jess Mine DM77	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Unknown DrDM72	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Midway MineDM34	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Upper Maggi0099-01	0.0	0.0	0.0%	0.5	100.0%
UA-blw	adit near topDM50	0.0	0.0	0.0%	0.5	100.0%
UA-blw	above Bucke0200-01	0.0	0.0	0.0%	0.5	100.0%
UA abv Eu	Toltec Mine (DM29	0.0	0.0	0.0%	0.5	100.0%
UA-blw	0321-01	0.0	0.0	0.0%	0.5	100.0%
UA abv Eu	Riverside MiDM9	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Upper Maggi0098-01	0.0	0.0	0.0%	0.5	100.0%
UA abv Eu	London MinDM5	0.0	0.0	0.0%	0.5	100.0%
		0.0	0.0	0.0%	0.5	100.0%
CC	Red & Bonit:CC03C	0.0	0.0	0.0%	0.5	100.0%
CC	Henrietta 7 MCC24G	0.0	0.0	0.0%	0.5	100.0%
CC	Lark Mine CC24D	0.0	0.0	0.0%	0.5	100.0%
CC	Mine South cCC02E	0.0	0.0	0.0%	0.5	100.0%
CC	Kansas City CC30D	0.0	0.0	0.0%	0.5	100.0%
CC	Kansas City CC30E	0.0	0.0	0.0%	0.5	100.0%
MC	Adit 103-NWM27F	0.0	0.0	0.0%	0.5	100.0%
UA abv Eu	Upper ComeA21D	0.0	0.0	0.0%	0.5	100.0%
UA abv Eu	Gold Prince A23a	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Blair Mtn. TuDM65	0.0	0.0	0.0%	0.5	100.0%
UA-blw	Ridgeway Mi0199-01	0.0	0.0	0.0%	0.5	100.0%
	Total	221.6	0.5	100.0%		

CC	Small dump ?	0.0	
CC	Handcock GCC47B	NA	
CC	Avalanche MCC30K	NA	
CC	Georgia Gulch CC30L	NA	
MC	Adit S. ChattM10B	NA	
MC	Paradise AditM16D	NA	
MC	Adit 104-W EM27D	NA	
MC	Bullion King	NA	
MC	Burbank PorM26B	NA	
MC	Paradise AditM16B	NA	
MC	Ensle TunneM26C	NA	
MC	1st SW MF MM18B	NA	
MC	Adit E.of BuM27DE	NA	
MC	Paradise AditM16C	NA	
MC	U.S. Basin # M07D	NA	
MC	Brooklyn sluWBG10	NA	
MC	Chatanooga M11B	NA	
MC	Colaps adit IM27E	NA	
MC	Adit 103-W EM27F	NA	
MC	Lower S.ParIM23B	NA	
UA abv Eu	Toltec Vein #0212-01	NA	
UA abv Eu	Little Ida MirDM-11	NA	
UA abv Eu	Little Ida MirDM-13	NA	
UA abv Eu	N.of Cinn. P#0184-01	NA	
UA abv Eu	Middle Tolte0218-01	NA	
UA abv Eu	Burrows or I0088-01	NA	
UA abv Eu	N.of Cinn. P#0184-02	NA	
UA abv Eu	Adit opposit0169-01	NA	
UA-blw	Lower RandDM69	NA	
UA-blw	Kitti Mack DM68	NA	
UA-blw	ShenandoahDM55	NA	
UA-blw	Upper Iowa IDM61	NA	
UA-blw	Champion MDM76	NA	
UA-blw	SF Eureka; E0207-01	NA	
UA-blw	Progressive DM42	NA	
UA-blw	Adit adj. Por0164-01	NA	
UA-blw	Little CasinoDM73	NA	
UA-blw	Adit W. &S. #0079-01	NA	
UA-blw	Adit 1/8mi. S0024-01	NA	
UA-blw	Upper Minni0025-02	NA	
UA-blw	Little Maud DM41	NA	
UA-blw	Adit 3/4 mi. #0025-01	NA	

Reduction per technology:

Bulkhead = 50%

Passive Treatment = 30%

Active = 85%

costs

Phase 1	Phase 2	%Reductions		Load Removed in #'s/day		
costs	Costs	Phase 1	Phase 2	Phase 1	Cumulative	Phase 2
per site	per site			phase 1		
60	300	50	50	0.12	0.12	0.12
300	300	50	50	0.01	0.14	0.01
1000	300	80	50	0.01	0.15	0.01
300	300	50	30	0.01	0.16	0.01
300	1000	50	50	0.01	0.17	0.01
60	1000	30	50	0.00	0.17	0.01
60	300	30	50	0.00	0.18	0.01
300		50	50	0.01	0.18	0.01
60	300	30	50	0.00	0.18	0.00
60	1000	30	85	0.00	0.19	0.01
300	300	30	50	0.00	0.19	0.00
300		50	50	0.00	0.19	0.00
60		50	50	0.00	0.20	0.00
300	1000	50	90	0.00	0.20	0.01
300	300	30	50	0.00	0.20	0.00
60	300	30	50	0.00	0.20	0.00
60	1000	0	50	0.00	0.20	0.00
0		0	0	0.00	0.20	0.00
300	300	30	50	0.00	0.20	0.00
0	300	30	85	0.00	0.20	0.00
300	300	30	50	0.00	0.21	0.00
10	300	0	50	0.00	0.21	0.00
		50	50	0.00	0.21	0.00
60		50	50	0.00	0.21	0.00
10	300	0	50	0.00	0.21	0.00
300	300	50	50	0.00	0.21	0.00
		0	0	0.00	0.21	0.00
0		0	0	0.00	0.21	0.00
60	300	50	80	0.00	0.21	0.00
10	300	0	50	0.00	0.21	0.00
0		0	0	0.00	0.21	0.00
10	300	30	50	0.00	0.21	0.00
		0	0	0.00	0.21	0.00
300	300	50	50	0.00	0.21	0.00
300	1000	50	30	0.00	0.21	0.00

300	300	50	80	0.00	0.21	0.00
60	1000	30	50	0.00	0.21	0.00
		85	85	0.00	0.21	0.00
1000	0	50	50	0.00	0.22	0.00
60	300	50	50	0.00	0.22	0.00
300	300	30	50	0.00	0.22	0.00
		0	0	0.00	0.22	0.00
300	300	30	50	0.00	0.22	0.00
		50	50	0.00	0.22	0.00
		50	50	0.00	0.22	0.00
0		0		0.00	0.22	0.00
60	300	30	50	0.00	0.22	0.00
0		0		0.00	0.22	0.00
		30	50	0.00	0.22	0.00
		0	50	0.00	0.22	0.00
300	1000	50	85	0.00	0.22	0.00
		50	50	0.00	0.22	0.00
		0	0	0.00	0.22	0.00
		50	50	0.00	0.22	0.00
		0		0.00	0.22	0.00
		0	0	0.00	0.22	0.00
		50	50	0.00	0.22	0.00
		30	30	0.00	0.22	0.00
		30	50	0.00	0.22	0.00
		0		0.00	0.22	0.00
		0	0	0.00	0.22	0.00
		50	50	0.00	0.22	0.00
		50	50	0.00	0.22	0.00
		0	0	0.00	0.22	0.00
		50	50	0.00	0.22	0.00
		0	0	0.00	0.22	0.00
		0	0	0.00	0.22	0.00
		0	0	0.00	0.22	0.00
		0	0	0.00	0.22	0.00
		0	0	0.00	0.22	0.00
		50	0	0.00	0.22	0.00
		0	0	0.00	0.22	0.00
				0.00	0.22	0.00
		0	0	0.00	0.22	0.00
		30		0.00	0.22	0.00
		30	50	0.00	0.22	0.00
		0	0	0.00	0.22	0.00
		0		0.00	0.22	0.00
60	1000	0	50	0.00	0.22	0.00
60	300	50	50	0.00	0.22	0.00
300		50	50	0.00	0.22	0.00
300	10	30	50	0.00	0.22	0.00
60		30	0	0.00	0.22	0.00
300	10	30	30	0.00	0.22	0.00

[illegible]

0.00	0.22	0.00
0.00	0.22	0.00
0.00	0.22	